

# SAFETY DATA SHEET

(according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878)

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

### 1.1. Product identifier

Product name: DIMENSE STRUCTURAL INK

REACH No: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses: structural ink for Dimense technology.

Uses advised against: other mentioned above.

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

Company: UAB DG Dimense, Baltosios Vokes str. 37, LT-02243 Vilnius

E-mail address: info@dimense.com

Further information about the SDS obtainable from: info@dimense.com

### 1.4. Emergency telephone number

Lithuanian emergency telephone number: +370 52 36 20 52; +370 687 53378 (24h)

International emergency number: 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]:

Acute Tox.4, H302

Acute Tox.3, H331

Skin Irrit. 2, H315

Skin Senc. 1B, H317

Eye Irrit. 2, H319  
Aquatic Chronic 2, H411

For full text of abbreviations: see SECTION 16

## 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]:

Pictograms:



Signal word:

Danger

Hazard statements:

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P261 Avoid breathing mist/vapors/spray.
- P273 Avoid release to the environment.
- 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.
- P312 Call a POISON CENTRE/doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains:

2-butoxyethanol (CAS 111-76-2)

Heterocyclic deactivator.

### 2.3. Other hazards

None known.

#### PBT/vPvB data:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

#### Endocrine disrupting properties-Toxicity:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0,1% or higher.

#### Endocrine disrupting properties-Ecotoxicity:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0,1% or higher.

## SECTION 3: Composition/information on Ingredients

### 3.2. Mixture

NAME	PRODUCT IDENTIFER	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008[CLP]
2-butoxyethanol	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0	60-80	Acute Tox.4, H302; Acute Tox.3, H331 Skin Irrit. 2; H315 Eye Irrit. 2; H319 ATE = 1.500 mg/kg, oral inhalation ATE = 3 mg/L (4h), vapour
Heterocyclic deactivator	C.B.I.	10-25	Skin Irrit.2, H315 Skin .Sens 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 M-factor acute: 1

\* C.B.I.: Confidential Business Information.

## SECTION 4: First Aid Measures

### 4.1. Description of first aid measures

#### General notes:

Self-protection of the first aider.

Remove affected person from the danger area and lay down. Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation:

Provide fresh air.

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

Keep at rest.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Get medical advice/attention.

#### Following skin contact:

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

#### Following eye contact:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth immediately and drink plenty of water. Get immediate medical advice/attention.

#### Notes for the doctor:

None.

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

Irritating to eyes and skin. Harmful if swallowed or if inhaled.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media:

Water jet.

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

Combustible.

Hazardous decomposition products: Section 10. Vapors may form explosive mixtures with air.

Hazardous combustion products:

Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters:

Self-contained breathing apparatus (EN 133).

## SECTION 6: Accidental Release Measures

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

For non-emergency personnel:

Remove persons to safety. Ventilate affected area.

Do not breathe mist/vapors/spray.

Do not get in eyes, on skin, or on clothing.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

For emergency responders:

Wear breathing apparatus if exposed to vapors/dust/spray/gases.

## 6.2. Environmental precautions

In case of formation of gases/vapors/mists suppress with water spray. Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

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

Advice on how to clean up a spill:

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques:

Use of adsorbent materials.

Other information relating to spills and releases:

Place in appropriate containers for disposal. Ventilate affected area.

## 6.4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

# SECTION 7: Handling and Storage

## 7.1. Precautions for safe handling

Do not get in eyes, on skin, or on clothing. Do not breathe vapor/spray.

Measures to prevent fire as well as aerosol and dust generation:

Use local and general ventilation.

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

Specific notes/details:

Vapors may form explosive mixtures with air.

#### **Handling of incompatible substances or mixtures:**

Keep away from oxidizers.

#### **Measures to protect the environment:**

Avoid release to the environment.

#### **Advice on general occupational hygiene:**

Do not eat, drink and smoke in work areas. Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

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

#### **Flammability hazards:**

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

#### **Incompatible substances or mixtures:**

Incompatible materials: see section 10. Observe hints for combined storage.

#### **Protect against external exposure, such as:**

heat.

#### **Consideration of other advice:**

Keep away from food, drink and animal feeding stuffs.

#### **Ventilation requirements:**

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

Provision of sufficient ventilation.

#### **Specific designs for storage rooms or vessels:**

Handle under inert gas.

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

Keep cool.

#### **Storage temperature:**

Recommended storage temperature:  $\leq 35$  °C.

#### **Storage duration:**

18 Months.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Packaging compatibilities:**

Keep only in original container.

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

Structural Ink for Dimense technology.

## SECTION 8: Exposure Controls/Personal Protection

**8.1. Control parameters**

No data available

**8.2. Exposure controls**

Appropriate engineering controls:

Use local and general ventilation.

Individual protection measures (personal protective equipment) Eye/face protection:

Wear eye/face protection (EN 166).

Hand protection:

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection:

Protective clothing against liquid chemicals. (EN 13832, EN 340, EN 14605).

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. (EN 136, EN 140, EN 14387, EN 143, EN 149).

Type: A (against organic gases and vapors with a boiling point of > 65 °C, color code: Brown).

Environmental exposure controls:

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



## SECTION 9: Physical and Chemical properties

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

Physical state:	Liquid at 20 °C
Color:	Colorless/light yellow
Odor:	Slightly
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range:	Not determined
Flammability:	Not determined
Lower and upper explosive limits:	Not determined
Flash point:	>72 °C (ISO 2592)
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
pH:	Not determined
Kinematic viscosity:	4-5 cP at 25 °C
Solubility: solubility in water:	Not soluble in water
Vapor pressure:	Not determined
Density:	<1 g/cm <sup>3</sup> at 25 °C
Relative vapor density:	Not determined
Particle characteristics:	No particles

### 9.2. Other safety information

No data available

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2. Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

See below "Conditions to avoid".

### **10.3. Possibility of hazardous reactions**

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Light metals (due to the release of hydrogen in an acid/alkaline medium).  
Dangerous/dangerous reactions with Oxidizer.

### **10.4. Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Contact with air/oxygen.

### **10.5. Incompatible materials**

Oxidizers.

### **10.6. Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.  
Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological Information**

### **11.1. Information on toxicological effects**

No data available.

### **11.2. Information on other hazards**

The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0,1% or higher.

## **SECTION 12: Ecological Information**

### **12.1. Toxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is harmful to aquatic organisms.

### **12.2. Persistence and degradability**

No data available.

### **12.3. Bioaccumulative potential**

No data available.

### **12.4. Mobility in soil**

No data available.

### **12.5. Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

### **12.6. Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0,1% or higher.

### **12.7. Other adverse effects**

No data available.

## **SECTION 13: Disposal Considerations**

### **13.1. Waste treatment methods**

This mixture and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### **Sewage disposal-relevant information:**

Do not empty into drains.

#### **Waste treatment of containers/packagings:**

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### **(a) Remarks:**

Please consider the relevant national or regional provisions.

## SECTION 14: Transport Information

### 14.1. UN number or ID number

ADR/RID	2810
IMDG-Code	2810
IATA	2810

### 14.2. UN proper shipping name

ADR/RID	toxic liquid, organic, N.O.S. (contains 2-butoxyethanol)
IMDG-Code	toxic liquid, organic, N.O.S. (contains 2-butoxyethanol)
IATA	toxic liquid, organic, N.O.S. (contains 2-butoxyethanol)

### 14.3. Transport hazard class(es)

ADR/RID	6.1
IMDG-Code	6.1
IATA	6.1

### 14.4. Packing group

ADR/RID	III
IMDG-Code	III
IATA	III

### 14.5. Environmental hazards

ADR/RID	yes
IMDG-Code	yes
IATA	yes

### 14.6. Special precautions for user

Tunnel restriction code:	(E)
Further information:	transport and storage of the product in accordance with general precautions and instructions mentioned in this SDS.

## SECTION 15: Regulatory Information

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

#### EU Information:

Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

#### USA Information:

All substances are listed (commercial status is active) in Toxic Substances Control Act (TSCA).

SARA title III: CAS No.111-76-2 Glycol Ethers (N230).

Not listed in California Proposition 65.

#### Canada Information:

All substances are listed in Canadian Environmental Protection Act (CEPA).

#### Japan Information:

All substances are listed in Chemical Substances Control Law (CSCL): CAS 111-76-2 (Priority Assessment).

All substances are listed in Pollutant Release and Transfer Register (PRTR) Law: CAS 111-76-2 (Class I).

All substances are listed in Industrial Safety and Health Act (ISHA): CAS 111-76-2 (Labeling, Deliver of Documents and Ordinance Organic Solvents).

#### China Information:

All substances are listed in China Inventory of Existing Chemical Substances (IECSC).

#### Philippines Information:

All substances are listed in Philippine Inventory of Chemicals and Chemical Substances (PICCS).

#### Australia Information:

All substances are listed in Australian Industrial Chemicals Introduction Scheme (AICIS).

#### Taiwan Information:

All substances are listed in Toxic Chemical Substance Control Act (TCSC).

#### New Zealand Information:

All substances are listed in New Zealand Inventory of Chemicals (NZIoC).

#### Korea Information:

All substances are listed in Act on Registration and Evaluation of Chemical Substances.

#### International Information:

None of the ingredients in this ink is listed by IARC as a carcinogen. (1, 2A and 2B).

## 15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

**H302** Harmful if swallowed.

**H315** Causes skin irritation.

**H317** May cause an allergic skin reaction.

**H319** Causes serious eye irritation.

**H331** Toxic if inhaled.

**H411** Toxic to aquatic life with long lasting effects.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. UAB DG DIMENSE shall not be held liable for any damage resulting from handling or from contact with the above product.