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"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier** Fabric & Textile protection  
**Trade Name:** DAB FLOW - OBB.X  
**Article No.:** n.av.  
**Preparation No.:** n.av.  
**Registration No.:** n.ap.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
 Identified uses: Impregnation agent
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**  
 Dab Flow Nanotechnology-UG | Sandstraße 104 | 40789 Monheim Am Rhein, Germany  
 Phone +49 2173 2028 540 | info@dabflow.co | www.dabflow.co
- 1.3.2 **Responsible for the data sheet:**  
 CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**  
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning  
 Telephone: +49 – 211 478830 (8:30 – 16.30) Telephone: +44 870 600 6266



## SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**  
 Flam. Liq. 2; H225 / Eye Irrit. 2; H319 / STOT SE 3; H336

### 2.2 Label elements

Classification according to 1272/2008/EC: Yes.

Applicable Exemptions: Yes.

Signal word(s): Danger

Component(s):

Hazard pictogram(s):



#### H - Phrases:

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

#### P - Phrases:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

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.

P308+P313: IF exposed or concerned: Call a POISON CENTER/doctor.

Additional Markings:

EUH066: Repeated exposure may cause skin dryness or cracking.

The above mentioned labelling is valid for distribution to industrial user.

### 2.3 Other hazards

This mixture contains no substances which are assessed to be PBT or vPvB.

Solvents may degrease the skin.

In use, may form flammable/explosive vapour-air mixture.

May be harmful if swallowed.

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**SECTION 3: Composition/information on ingredients****3.1 Substances**

n. ap.

**3.2 Mixtures****Chemical Characterisation:**

Solvent mixture with fluorcarbon resin

**Ingredients:**

<b>Material</b>			<b>H - phrases</b>	<b>m% - range</b>
<b>CAS - No.</b>	<b>EC - No.</b>	<b>REACH - No.</b>		
Propan-2-ol			Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	> 75%
67-63-0	200-661-7	01-2119457558-25-xxxx		
n-Butylacetat			Flam. Liq. 3; H226 STOT SE 3; H336	5 - 15%
123-86-4	204-658-1	01-2119485493-29-xxxx		
Isopropylacetat			Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - 5%
108-21-4	203-561-1	n. av.		

Text of H - phrases: see section 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

If symptoms persist, call a physician.

**4.1.2 Skin Contact:**

Rinse with water.

If symptoms persist, call a physician.

**4.1.3 Eye Contact:**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**4.1.4 Ingestion:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting.

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

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

**5.1.2 Extinguishing Media to Avoid:**

High volume water jet.

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

In the event of fire the following can be released: Carbon oxides

**5.3 Advice for firefighters****5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

**5.3.2 Additional Information:**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire, cool tanks with water spray.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

See chapter 8.2.2

Contaminated surfaces will be extremely slippery.

**6.2 Environmental precautions**

Do not contaminate water. Local authorities should be advised if significant spillages cannot be contained.  
Prevent further leakage or spillage if safe to do so.

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

Soak up with inert absorbent material. Shovel into suitable container for disposal.

**6.4 Reference to other sections**

None.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling:**

Avoid contact with skin and eyes. Take off all contaminated clothing immediately.  
When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.  
Do not breathe vapours or spray mist. Avoid formation of aerosol.

**7.1.2 Precautions in Case of Fire and Explosion:**

Keep away from sources of ignition - No smoking.  
Take measures to prevent the build up of electrostatic charge.

**7.2 Conditions for safe storage, including any incompatibilities****7.2.1 Storage Instructions:**

Keep tightly closed in a dry, cool and well-ventilated place.  
Keep in an area equipped with solvent resistant flooring.  
Store in original container. Keep away from direct sunlight.

**7.2.2 Store away from:**

Do not store together with strong oxidizing agents.

**7.2.3 Further Information on Storage Conditions:**

Protect against extremes of temperature and direct sunlight.

**7.3 Specific end use(s)**

n.av.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

**Material**

**Limit Value**

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Provide appropriate exhaust ventilation at machinery.

**8.2.2 Individual protection measures****8.2.2a Respiratory Protection:**

Not required under normal use.  
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**8.2.2b Hand Protection:**

Protective gloves complying with EN 374  
NBR (0,4mm) break through time > 8h  
The data about break through time/strength of material are standard values!  
The exact break through time/strength of material has to be obtained from the producer of the protective glove.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

**8.2.2c Eye Protection:**

Safety glasses

**8.2.2d Skin Protection:**

Long sleeved clothing

**8.2.2e Further Information:**

Observe wearing time limits:

**8.2.3 Environmental exposure controls:**

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

9.1.1	<b>Form:</b> liquid	<b>Colour:</b> colourless, clear	<b>Odour:</b> Characteristic, alcoholic
			<b>Odour threshold:</b> n.av.
9.1.2	pH-value, undiluted:	n.av.	
	pH-value, 1% aqueous solution:	n.av.	
9.1.3	Boiling point / Boiling - range (°C):	82,5 (Propan-2-ol)	
	Melting point / Melting range (°C):	n.av.	
9.1.4	Flash point (°C):	12 (Propan-2-ol), closed cup	
9.1.5	Flammability (EEC A10/A13):	No.	
9.1.6	Ignition temperature (°C):	425 (Propan-2-ol)	
9.1.7	Autoflammability (EEC A16):	None.	
9.1.8	Oxidising properties:	No.	
9.1.9	Explosion hazard:	No.	
9.1.10	Explosion limits (Vol.%) lower:	2 (Propan-2-ol), upper: 12 (Propan-2-ol)	
9.1.11	Vapour pressure:	n.av.	
	Vapour density (Air = 1):	n.av.	
9.1.12	Density (g/ml):	0,785 (Propan-2-ol)	
9.1.13	Solubility (in Water):	miscible	
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	50 - 100	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	<b>Other information</b>		
	n.av.		

**SECTION 10: Stability and reactivity**

10.1	<b>Reactivity</b>
	None.
10.2	<b>Chemical stability</b>
	Stable under normal conditions.
10.3	<b>Possibility of hazardous reactions</b>
	In use, may form flammable/explosive vapour-air mixture.
10.4	<b>Conditions to avoid</b>
	Keep away from fire, sparks and heated surfaces.
	Protect from frost, heat and sunlight.
10.5	<b>Incompatible materials</b>
	Incompatible with oxidizing agents.
10.6	<b>Hazardous decomposition products</b>
	No decomposition if stored and applied as directed.
	To avoid thermal decomposition, do not overheat.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute Health Effects:

Inhalation:	n.av.
Ingestion:	n.av.
Skin Contact:	n.av.
Skin corrosion / irritation:	Slight
Serious eye damage / irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	None.
Germ cell mutagenicity:	n.av.
Carcinogenicity:	n.av.
Reproductive toxicity:	n.av.
STOT-single exposure:	n. av.
STOT-repeated exposure:	n. av.
Aspiration hazard:	n. av.

**11.1.1 – Practical Experience**

11.1.11 n.av.

**11.1.12 Practical Experience**

Observations relevant for classification:

Repeated exposure may cause skin dryness or cracking.

Further Observations:

Avoid formation of aerosol / use by spraying

Inhalation of aerosol may cause irritation to the upper respiratory tract.

Classification of the preparation has been done by calculation in accordance with EEC directives.

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

We have no quantitative data concerning the ecological effects of this product.

**12.2 Persistence and degradability**

No data is available on the product itself.

**12.3 Bioaccumulative potential**

n.av.

**12.4 Mobility in soil**

n.av.

**12.5 Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

**12.6 Other adverse effects**

12.6.1	COD-Value, mg/g:	n.av.
12.6.2	BOD5-Value, mg/g:	n.av.
12.6.3	AOX-Remarks:	Not applicable.
12.6.4	Significant Components:	n.av.
12.6.5	Other adverse effects:	Not applicable.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

13.1.1 Recommendation: D 10

Waste - Code - No.:

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

**13.2 Contaminated Packaging**

13.2.1 Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.




13.2.2 Safe Handling: As described under Residues. Handle in accordance with good industrial hygiene and safety practice.



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**SECTION 14: Transport information**

	ADR	IMDG	IATA
14.1	<b>UN number</b> 1993	1993	1993
14.2	<b>UN proper shipping name</b> UN 1993 Entzündbarer flüssiger Stoff, n.a.g. (Isopropanol, Isopropylacetat)	Entzündbarer flüssiger Stoff, n.a.g. (Isopropanol, Isopropylacetat)	Flammable liquid, n.o.s. (contains: Isopropanol, Isopropyl acetate)
14.3	<b>Transport hazard class(es)</b> 3 	3 	3 
14.4	<b>Packing group</b> II	II	II
14.5	<b>Environmental hazards</b>	No.	
14.6	<b>Special precautions for user</b> Transport category: 2 Classification Code: F1 Hazard - No.: 33 LQ: 1 L	F-E, S-E	Packing Instructions (Passenger) 353 Packing Instructions (Cargo) 364
14.7	<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	n.av.	

**SECTION 15: Regulatory information**

15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> n.av.
15.2	<b>Chemical safety assessment :</b> n.ap.

**SECTION 16: Other information****Text of H phrases mentioned in Section 3**

EUH066: Repeated exposure may cause skin dryness or cracking.

H225: Highly flammable liquid and vapour.

H226: Flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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