

Trading name:	<b>NB FORMALDEHYDE CONCENTRATED 5X</b>				
Product code:	FK5X-X**	Revision date:	14 November 2022	Version:	5

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




1.1.	Product identifier	
	Trading name:	NB FORMALDEHYDE CONCENTRATED 5X
	Chemical name:	-
	Catalogue number:	FK5X-X**
1.2.	Relevant identified uses of the substance or mixture and uses advised against	
	Uses:	Concentrated neutral buffered formaldehyde for preparation of 4% buffered solution (pH 7.0)
	Uses advised against:	Only the identified uses are advised.
	Reason why uses advised against:	The product is intended for use only as an <i>in vitro</i> diagnostic medical device and there is no reason to use it for other purposes
1.3.	Details of the supplier of the safety data sheet	
	Supplier:	BioGnost Ltd.
	Address:	Medjugorska 59, Zagreb
	Telephone number:	+385 1 2409 997
	Fax no.:	+385 1 2404 039
	e-mail of competent person:	<a href="mailto:msds@biognost.hr">msds@biognost.hr</a>
	National contact:	-
1.4.	Emergency telephone number	
	National Protection and Rescue Directorate:	112
	Medical information:	+3851 2348-342
	Other information:	-

**SECTION 2. Hazards identification**

2.1.	Classification of the substance or mixture	
2.1.1.	Classification according to Regulation (EC) No 1272/2008 (CLP)	
	Hazard class and category code:	Hazard statements*:
	Acute Tox. 3	H301
	Acute Tox. 3	H311
	Skin Corr. 1B	H314
	Skin Sens. 1	H317
	Acute Tox. 3	H331
	Muta. 2	H341
	Carc. 1B	H350
2.1.2.	Additional information	
	-	

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\*For full text of Hazard- and EU Hazard-statements: see Section 16

<b>2.2. Label elements</b>	
Product identification:	NB FORMALDEHYDE CONCENTRATED 5X
Identification number:	-
Authorisation number:	-
Hazard pictograms:	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">               GHS08         </div> <div style="text-align: center;">               GHS05         </div> <div style="text-align: center;">               GHS06         </div> </div>
Signal word:	Danger
Hazard statements:	H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H350 May cause cancer.
Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301+P310 IF SWALLOWED: Immediately contact POISON CENTER/physician. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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: Get medical advice/attention.
Supplemental hazard information (EU):	-
<b>2.3. Other hazards</b>	
This substance/mixture does not contain components considered persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (VPvB) at levels of 0.1% and more.	

**SECTION 3. Composition/information on ingredients**

CAS/EC/ Index no.	REACH Registration No	Weight % content (or range)	Identification name	Classification according to Regulation (EC) No 1272/2008 (CLP)

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50-00-0/ 200-001-8/ 605-001-00-5	01-2119488953- 20-0034	34.5 – 39.5 %	formaldehyde, 37%	Carc. 1B; H350 Muta. 2; H341 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 Skin Corr. 1B; H314 Skin. Sens. 1; H317
67-56-1/ 200-659-6/ 603-001-00-X	01- 21194333307- 44-XXXX	7- 10 %	methanol	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370

**SECTION 4. First aid measures**

4.1.	Description of first aid measures	
	General notes:	Immediately remove all the contaminated and wet clothes and footwear. The first responder should also take care of self-protection. Toxicity symptoms may occur several hours after the exposure, that is why medical supervision is necessary for at least 48 hours.
	Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. Gas mask may be removed only after removing contaminated clothes. In case of respiratory arrest, provide artificial respiration (while not exposing the provider). In case of unconsciousness, transport the afflicted person in the lateral position. Seeking medical advice is advised.
	Following skin contact:	Take off immediately all contaminated clothing and footwear. Skin that came into contact with the material must be thoroughly washed using water and soap for skin cleaning for at least 20 minutes.
	Following eye contact:	Rinse out with plenty of water with the eyelid held wide open for at least 20 minutes. If the symptoms remain, immediately call in ophthalmologist.
	Following ingestion:	Do not induce vomiting. Rinse the oral cavity, drink at most 1-2 glasses of water. Immediately consult a physician and show the container or label. In case of swallowing large quantities, transport the afflicted person to the hospital.
	Self-protection of the first aider:	-
4.2.	Most important symptoms and effects, both acute and delayed	
	Following inhalation:	Irritation of the mucous membrane of the nose/throat may occur (burning sensation, urge to sneeze, runny nose). High concentration may cause difficult breathing, coughing fits, chest tightness, headache, vertigo and drowsiness.
	Following skin contact:	Irritation, redness with stinging and pain, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammatory processes may occur.

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	Following eye contact:	Depending on concentration and exposure time, mucosa stinging, lacrimation, redness and pain may occur, as well as bleeding, delayed onset of inflammatory processes and permanent eyesight damage.
	Following ingestion:	Depending on concentration and exposure time, it may lead to stinging and digestive mucus damage, abdominal pain, nausea, vomiting (possibly of bloody content).
4.3.	Indication of any immediate medical attention and special treatment needed	
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<b>SECTION 5. Firefighting measures</b>		
5.1.	Extinguishing media	
	Suitable extinguishing media:	water, foam, dry powder, CO <sub>2</sub> , water spray or alcohol resistant foam
	Unsuitable extinguishing media:	Strong jet of water
5.2.	Special hazards arising from the substance or mixture	
	Hazardous combustion products:	Formalin solution is not flammable by itself. Gases released from the solution are highly flammable if the solution concentration exceeds 25%. Carbon dioxide and carbon monoxide may form in case of burning, the resulting fumes are heavier than air and may spread along the floor. Explosive mixtures of formaldehyde vapors and air may form during heating and also present danger.
5.3.	Advice for firefighters	
	Use a self-contained open-circuit compressed air breathing apparatus and fireproof clothing. Cool closed containers exposed to fire with water spray, in order to prevent explosion.	
5.4.	Additional information	
	Remove the container from the hazard zone and cool with water. Make sure the water used for extinguishing fire does not contaminate water surface or groundwaters.	

<b>SECTION 6. Accidental release measures</b>		
6.1.	Personal precautions, protective equipment and emergency procedures	
6.1.1.	For non-emergency personnel	
	Protective equipment:	Use personal protective equipment (see Section 8).
	Accident prevention methods:	Evacuate all non-essential members of staff and those without personal protection vertical to wind direction in order to prevent breathing formaldehyde fumes. Remove all sources of sparks and ignition. Do not smoke.
	Emergency procedures:	Mark the area using proper signs.
6.1.2.	For emergency responders:	

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	Wear full gas protective clothes and breathing apparatus. Use appropriate personal protective equipment.	
6.2.	Environmental precautions:	
	Prevent leaking and the poured material spreading, as well as underground and sewage waste water contamination.	
6.3.	Methods and material for containment and cleaning up	
6.3.1.	Bunding, covering of drains; capping procedures:	Sand or clay barriers.
6.3.2.	Cleaning up:	Where possible, the substance can be absorbed by using inflammable material (sand, diatomaceous earth or other absorbent material). Place the waste material in tightly closed impermeable containers. Store the substance in well ventilated storage rooms until disposal. Submit for disposal to the legal persons authorized by the Ministry of Environmental and Nature Protection. After disposal of the products, wash the area and involved materials with water.
6.3.3.	Other information:	Do not use tools that may cause sparks.
6.4.	Reference to other sections	
	See Section 7 for information about secure handling. See Section 8 for information about personal protective equipment. See Section 13 for information about containment.	

<b>SECTION 7. Handling and storage</b>		
7.1.	Precautions for safe handling	
7.1.1.	Protection measures	
	Measures to prevent fire:	Use in well ventilated storage rooms. Keep away from sources of heat and ignition. Carry out measures for preventing static electricity.
	Measures to prevent aerosol and dust generation:	Secure proper ventilation.
	Measures to protect the environment:	Prevent spilling into the sewage system and waterways.
	Other measures:	-
7.1.2.	Advice on general occupational hygiene:	
	Do not eat, drink or smoke in the workspace. Thoroughly wash hands after work and before eating.	
7.2.	Conditions for safe storage, including any incompatibilities	
	Technical measures and storage conditions:	Keep in tightly closed and upright set containers in a well ventilated storage rooms at temperatures ranging from 15 to 25 °C.
	Packaging materials:	Manufacturer's original packaging.

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	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.
	Advices for storage equipment:	The storage must be made of hard material; floors must be resistant to chemicals. There must be no drain that directly leads into sewage system. Secure proper ventilation.
	Further information on storage conditions:	Do not place the unused material in the storage room and do not use empty containers for storing other chemicals. Do not store with incompatible materials (see Section 10).
7.3.	Specific end use(s)	
	Recommendations:	-
	Industrial sector specific solutions:	-

**SECTION 8. Exposure controls/personal protection**

## 8.1. Control parameters

Substance	CAS No	Occupational exposure limit values/short term values		Biological limit values
		ppm	mg/m <sup>3</sup>	
Formaldehyde	50-00-0	0.3/0.6	0.37/0.74	-
Methanol	67-56-1	200/-	260/-	-

Substance name: -

EC No: -

CAS No: -

**DNEL**
**Industrial**

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	-	-	-
Inhalation	0.75 mg/m <sup>3</sup> (formaldehyde) 130 mg/m <sup>3</sup> (methanol)	- 130 mg/m <sup>3</sup> (methanol)	0,375 mg/m <sup>3</sup> (formaldehyde) 130 mg/m <sup>3</sup> (methanol)	9 mg/m <sup>3</sup> (formaldehyde) 130 mg/m <sup>3</sup> (methanol)
Dermal	-	20 mg/kg t/day (methanol)	0.037 mg/cm <sup>2</sup> (formaldehyde)	240 mg/kg t/day (methanol) 20 mg/kg t/day (methanol)

Critical physical parameters: solubility, flammability, corrosivity:

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Consumer				
Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
Oral	-	4 mg/kg t/day (methanol)	-	4.1 mg/kg t/day (methanol) 4 mg/kg t/day (methanol)
Inhalation	- 26 mg/m <sup>3</sup> (methanol)	- 26 mg/m <sup>3</sup> (methanol)	0.1 mg/m <sup>3</sup> (formaldehyde) 26 mg/m <sup>3</sup> (methanol)	3.2 mg/m <sup>3</sup> (formaldehyde) 26 mg/m <sup>3</sup> (methanol)
Dermal	-	4 mg/kg t/day (methanol)	0.012 mg/cm <sup>2</sup> (formaldehyde)	102 mg/kg t/day (formaldehyde) 4 mg/kg t/day (methanol)

PNEC	
Environmental protection target	PNEC
Fresh water	0.44 mg/l (formaldehyde) 20.8 mg/l (methanol)
Freshwater sediments	2.3 mg/kg (formaldehyde) 77 mg/kg (methanol)
Marine water	0.44 mg/l (formaldehyde) 2.08 mg/l (methanol)
Marine sediments	2.3 mg/kg (formaldehyde) 7.7 mg/kg (methanol)
Food chain	No information available
Microorganisms in sewage treatment	0.19 mg/l (formaldehyde) 100 mg/l (methanol)
Soil (agricultural)	0.2 mg/kg (formaldehyde) 100 mg/kg (methanol)
Air	No information available

8.2.	Exposure controls	
8.2.1.	Appropriate engineering controls	
	Substance/mixture related measures to prevent exposure during identified uses:	Use the product in well ventilated rooms. Use personal protective equipment. Do not eat, drink or smoke in the workspace.
	Structural measures to prevent exposure:	No information available.

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	Organisational measures to prevent exposure:	Organization of work in order to reduce other worker's influence during work process.
	Technical measures to prevent exposure:	Secure proper workspace ventilation in order to keep concentration levels in air below permitted levels.
8.2.2.	Personal protection equipment	
8.2.2.1.	Eye and face protection:	Safety glasses that stick to face; protective gas mask that covers the entire face in case of higher levels of concentration in air.
8.2.2.2.	Skin protection	
	Hand protection:	Protective gloves must be according to the EU Directive EU 2016/425/EEC and the EN 374 standard. Full contact: Glove material: nitrile rubber Glove thickness: 0.4 mm Time until perforation: 480 min Splash contact: Glove material: nitrile rubber Glove thickness: 0.2 mm Time until perforation: 60 min
	Other body parts protection:	Wear protective suit with long sleeves that protects from chemicals and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:	Use mask that covers the entire face. Recommended filter type: ABEK. Use respirators and components tested according to and approved by the standard (EU).
8.2.2.4.	Thermal hazards:	No information available
8.2.3.	Environmental exposure controls	
	Substance/mixture related measures to prevent exposure:	See Section 6
	Structural measures to prevent exposure:	Use modern equipment.
	Organisational measures to prevent exposure:	Adapt the work process to the required working conditions of the workplace.
	Technical measures to prevent exposure:	See Section 6

**SECTION 9. Physical and chemical properties**

9.1.	Information on basic physical and chemical properties		
		Value	Method
	Physical state:	liquid	No information available
	Color:	colorless	No information available



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Odor (odor threshold):	sharp/no information available	No information available
Melting point / freezing point:	No information available	No information available
Boiling point or initial boiling point and boiling temperature range:	> 97 °C at 1013 hPa	No information available
Flammability	No information available	No information available
Lower and upper explosiveness levels:	lower: 7 vol.% (formaldehyde) upper: 73 vol % (formaldehyde)	No information available
Flash point:	62 °C	No information available
Auto-ignition temperature:	No information available	No information available
pH:	6.4 - 6.9 (neutral buffered)	No information available
Kinematic viscosity	No information available	No information available
Solubility(ies):	No information available	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Vapor pressure:	No information available	No information available
Density and/or relative density:	No information available	No information available
Relative vapor density:	No information available	No information available
Particle properties:	No information available	No information available
9.2.	Other information	
	-	

<b>SECTION 10. Stability and reactivity</b>		
10.1.	Reactivity:	No information available.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using. Keep away from sources of heat and ignition.
10.3.	Possibility of hazardous reactions:	Explosion hazard when in contact with: nitric acid, hydrogen peroxide, nitromethane, acids, phenol, nitrogen dioxide Exothermic reactions occur with the following substances: bases, nitrides, polymerization initiators, sodium hydroxide, potassium permanganate, furfuryl alcohol, highly oxidizing agents, perchloric acid with aniline, hydrochloric acid, magnesium carbonate.
10.4.	Conditions to avoid:	Sources of heat, sparks, ignition, and low temperature.
10.5.	Incompatible materials:	Highly oxidizing agents, acids, bases and different metals, steel manufactured by melting, copper.
10.6.	Hazardous decomposition products:	See Section 5.

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**SECTION 11. Toxicological information**

11.1. Information on danger classes as defined by the Regulation (EC) 1272/2008

Acute toxicity:

Route of exposure:	Method	Species	Effective dose LD <sub>50</sub> /LC <sub>50</sub> or ATE <sub>mixture</sub>	Exposure time	Results
Oral exposure:	No information available	rat	LD <sub>50</sub>	No information available	100 mg/kg (formaldehyde) 100 mg/kg (methanol)
Dermal:	No information available	rabbit	LD <sub>50</sub>	No information available	300 mg/kg (formaldehyde) 300 mg/kg (methanol)
Inhalation exposure:	No information available	rat	LC <sub>50</sub>	4 h	3 mg/l (formaldehyde) 3 mg/kg (methanol)

Specific target organ toxicity – single exposure (STOT SE):

	Specific effects	Target organ	Note
Oral exposure:	No information available	No information available	-
Dermal exposure:	No information available	No information available	-
Inhalation exposure:	insomnia and vertigo	respiratory system	respiratory system irritation

Aspiration hazard: possible respiratory system irritation

Irritation and corrosion

	Exposure time	Species	Evaluation	Method	Note
Skin corrosion/irritation:	-	-	-	-	highly corrosive to skin surface and mucus
Serious eye damage/irritation	-	-	-	-	highly irritating for the eyes, can cause serious eye injury

Sensitization

Dermal exposure: May cause allergic skin reaction.

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Inhalation exposure:	Allergic persons may display irritation.
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Symptoms related to the physical, chemical and toxicological characteristics

Oral exposure:	If swallowed it can cause severe burns to mouth and throat, and danger of esophagus and stomach perforation.
Dermal exposure:	Depending on concentration and exposure time, redness accompanied by sensation of stinging and pain may occur, as well as burns and blistering.
Inhalation exposure:	Depending on concentration and exposure time, it may lead to mucosa irritation, cough, and shortness of breath. Inhalation may cause formation of oedema in respiratory tract and may cause damage.
Eye exposure:	Causes serious eye damage. Fumes may cause lacrimal irritation (tearing), blindness hazard.

Repeated dose toxicity (subacute, subchronic, chronic)

	Dose	Exposure time	Species	Method	Evaluation	Note
Subacute oral	No information available	No information available	No information available	No information available	No information available	-
Subacute dermal	No information available	No information available	No information available	No information available	No information available	-
Subacute inhalation	No information available	No information available	No information available	No information available	No information available	-
Subchronic oral	No information available	No information available	No information available	No information available	No information available	-
Subchronic dermal	No information available	No information available	No information available	No information available	No information available	-
Subchronic inhalation	No information available	No information available	No information available	No information available	No information available	-
Chronic oral	No information available	No information available	No information available	No information available	No information available	-
Chronic dermal	No information available	No information available	No information available	No information available	No information available	-

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Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-
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Specific target organ toxicity – repeated exposure (STOT RE):
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	Specific effects	Target organ	Note
Subacute oral	No information available	No information available	-
Subacute dermal	No information available	No information available	-
Subacute inhalation	No information available	No information available	-
Subchronic oral	No information available	No information available	-
Subchronic dermal	No information available	No information available	-
Subchronic inhalation	No information available	No information available	-
Chronic oral	No information available	No information available	-
Chronic dermal	No information available	No information available	-
Chronic inhalation	No information available	No information available	-

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CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)
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Carcinogenicity:	May cause cancer.
Mutagenicity <i>in-vitro</i> :	No information available.
Genotoxicity:	Probably causes genetic damage.
Mutagenicity <i>in-vivo</i> :	No information available.
Germ cell mutagenicity:	No information available.
Reproductive toxicity:	No information available.

Summary of evaluation of the CMR properties:	No information available
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11.2.	Information on other hazards
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11.2.1.	Endocrine disruption properties:
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Substance/mixture does not contain components considered to have endocrine disruption according to Article 57(f), regulation on registration, assessment, approval and restricting chemicals (REACH), or delegated Regulation (EU) 2017/2100 or (EU) 2018/605 at levels of 0.1% or above.	
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11.2.2.	Other information:
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According to our findings, chemical, physical and toxicological properties of the substance have not been entirely tested.

## SECTION 12. Ecological information

### 12.1. Toxicity

Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	<i>Pimephales promelas</i>	-	6.7 mg/l (formaldehyde) 15.400 mg/l (methanol)	-
Crustacea:	EC <sub>50</sub>	48 hours	<i>Daphnia magna</i>	-	5.8 mg/l (formaldehyde)	-
Algae/aquatic plants	IC <sub>50</sub>	8 days	algae	-	4.89 mg/l (formaldehyde)	-
Other organisms	-	-	-	-	-	-
Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC <sub>50</sub>	96 hours	No information available	No information available	No information available	-
Crustacea:	EC <sub>50</sub>	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC <sub>50</sub>	72 hours	No information available	No information available	No information available	-
Other organisms	-	-	-	-	-	-

### 12.2. Persistence and degradability

#### Abiotic degradation

	Degradation half-lives	Method	Evaluation	Note
Marine water	No information available	No information available	No information available	-
Fresh water	No information available	No information available	No information available	-
Air	No information available	No information available	No information available	-
Soil	No information available	No information available	No information available	-

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Biodegradation				
% Degradation	Time (days)	Method	Evaluation	Note
>90%	5 days	No information available	No information available	extremely biodegradable

**12.3. Bioaccumulative potential**

Partition coefficient: n-octanol/water (log Kow):						
Value	Concentration	pH	°C	Method	Evaluation	Note
-	No information available	-	-	No information available	No information available	No bioaccumulation expected

**Bioconcentration factor (BCF)**

Value	Species	Method	Evaluation	Note
No information available	No information available	No information available	No information available	-

**Chronic ecotoxicity**

Value	Dose	Exposure time	Species	Method	Evaluation	Note
Chronic toxicity on fish	LC <sub>50</sub>	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea ( <i>Daphnia</i> )	EC <sub>50</sub>	No information available	No information available	No information available	No information available	-

**12.4. Mobility in soil**

Known or predicted distribution in environmental compartments:						
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No information available					
Surface tension:					
	Value	°C	Concentration	Method	Note
	No information available	No information available	No information available	No information available	-

Adsorption / desorption						
Transport	A/D coefficient Henry's constant		log Kow	Evaporation rate	Method	Note
Soil-water	No information available	No information available	No information available	No information available	No information available	-
Water-air	No information available	No information available	No information available	No information available	No information available	-
Soil-air	No information available	No information available	No information available	No information available	No information available	-

12.5.	<b>Results of PBT and vPvB assessment</b>
	This substance/mixture does not contain components considered persistent, bio-accumulative and toxic (PBT), or very persistent and very bio-accumulative (VPvB) at levels of 0.1% and more.

12.6.	<b>Endocrine disruption properties:</b>
	Substance/mixture does not contain components considered to have endocrine disruption according to Article 57(f), regulation on registration, assessment, approval and restricting chemicals (REACH), or delegated Regulation (EU) 2017/2100 or (EU) 2018/605 at levels of 0.1% or above.

12.7.	<b>Other adverse effects</b>
	No information available.

<b>SECTION 13. Disposal considerations</b>	
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13.1.	<b>Waste treatment methods</b>
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13.1.1.	<b>Product/Packaging disposal:</b>
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	Waste material must be disposed of according to the national and local rules and regulations. Do not mix with other sorts of waste. Submit for disposal to the legal person authorized by the Ministry of Environmental and Nature Protection.
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13.1.2.	Waste codes/waste designations according to Law:
	15 01 10: packaging that contains residual hazardous substances or is contaminated with hazardous substances
13.1.3.	Waste treatment – relevant information:
	No information available
13.1.4.	Sewage disposal – relevant information:
	Waste must not be disposed of into the sewage system.
13.1.5.	Other disposal recommendations:
	Do not dispose of the product's remains into the sewage system. Submit the remains to the collectors authorized by the ministry in charge. Do not dispose of the packaging into the sewage system. Submit the packaging to the collectors authorized by the ministry in charge.
13.1.6.	Relevant Community provisions:
	Act on Sustainable Waste Management.

**SECTION 14. Transport information**

Transporting/shipment by road (ADR)	
UN number:	2209
UN proper shipping name:	Formaldehyde, solution
Transport hazard class(es):	8
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Transporting/shipment by rail (RID)	
UN number:	2209
UN proper shipping name:	Formaldehyde, solution
Transport hazard class(es):	8
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-
Inland waterway transport (ADN)	
UN number:	2209
UN proper shipping name:	Formaldehyde, solution



Trading name:	<b>NB FORMALDEHYDE CONCENTRATED 5X</b>				
Product code:	FK5X-X**	Revision date:	14 November 2022	Version:	5

Transport hazard class(es):	8
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-

Transporting/shipment by sea (IMDG)

UN number:	2209
UN proper shipping name:	Formaldehyde, solution
Transport hazard class(es):	8
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-

Transporting/shipment by air (ICAO-TI/IATA-DGR)

UN number:	2209
UN proper shipping name:	Formaldehyde, solution
Transport hazard class(es):	8
Packing group:	III
Environmentally hazardous:	-
Special precautions for user:	-

Further information:	-
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**SECTION 15. Regulatory information**

15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EU regulations	
	Authorization and/or restrictions of use	
	Authorizations:	-
	Restrictions:	-

Trading name:	<b>NB FORMALDEHYDE CONCENTRATED 5X</b>				
Product code:	FK5X-X**	Revision date:	14 November 2022	Version:	5

Other EU regulations:	<p>EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council;</p> <p>The European Commission Regulation No. 453/2006 of 2010 on changes and amendments to the Regulation (EC) No. 1907/2006 of the European Parliament and Council on registration, evaluation, authorization and restriction of chemical substances (REACH);</p> <p>EC Regulation No. 2037/200 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer;</p> <p>EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals;</p> <p>EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants;</p> <p>Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives</p>
Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)	
National legislation:	<p>Chemicals Act, Regulation on classification, packaging and labeling of dangerous substances, Ordinance on occupational exposure limit values and on biological limit values, Regulation on categories, types and classification of waste with a waste catalog and list of hazardous waste, Ordinance on writing Material safety data sheet, Transport of Hazardous Substances Act</p>
15.2. Chemical safety assessment	
No chemical safety assessment in accordance with the EU REACH Legislation was conducted.	

<b>SECTION 16. Other information</b>	
16.1. Indication of changes:	-
16.2. Abbreviations and acronyms:	<p>PBT Stable, bioaccumulative and toxic</p> <p>vPvB Strongly stable and strongly bioaccumulative.</p> <p>LD<sub>50</sub> Lethal dose, 50%</p> <p>LC<sub>50</sub> Lethal concentration, 50%</p> <p>STOT-SE Specific target organ toxicity – single exposure</p> <p>IMDG International Maritime Dangerous Goods</p> <p>IATA International Air Transport Association</p> <p>GHS Globally Harmonized System of Classification and Labelling of Chemicals</p>
16.3. Key literature references and source of data:	Manufacturer's MSDS file
16.4. Classification and procedure used to derive the classification for mixture according to Regulation (EC) 1272/2008 (CLP)	
Classification according to CLP	Classification procedure

Trading name:	<b>NB FORMALDEHYDE CONCENTRATED 5X</b>			
Product code:	FK5X-X**	Revision date:	14 November 2022	Version: 5

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16.5.	Relevant H statements (number and full text)														
	<table border="0"> <tr> <td style="padding-right: 20px;">225</td> <td>Highly flammable liquid and vapor.</td> </tr> <tr> <td>301+311+331</td> <td>Toxic if swallowed, in contact with skin or if inhaled.</td> </tr> <tr> <td>314</td> <td>Causes severe skin burns and eye damage</td> </tr> <tr> <td>H: 317</td> <td>May cause allergic skin reaction.</td> </tr> <tr> <td>341</td> <td>Suspected of causing genetic defects.</td> </tr> <tr> <td>350</td> <td>May cause cancer.</td> </tr> <tr> <td>370</td> <td>Causes damage to organs.</td> </tr> </table>	225	Highly flammable liquid and vapor.	301+311+331	Toxic if swallowed, in contact with skin or if inhaled.	314	Causes severe skin burns and eye damage	H: 317	May cause allergic skin reaction.	341	Suspected of causing genetic defects.	350	May cause cancer.	370	Causes damage to organs.
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370	Causes damage to organs.														
16.6.	Training advice: -														
16.7.	<p>Further information:</p> <p>** "X" in the product code marks different volumes (different packagings of the product)</p> <p>We are not responsible for consequences in case of failure to comply with instructions for use or improper use of the product described in this material safety data sheet.</p>														

**ANNEX:**  
**EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT**

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