




Trading name:	FORMALDEHYDE 37% FOR USE IN HISTOLOGY				
Product code:	F37H-X**	Revision date:	20.05.2019.	Version:	3

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1. Product identifier		
Trading name:	FORMALDEHYDE 37% FOR USE IN HISTOLOGY	
Chemical name:	-	
Catalogue number:	F37H-X**	
1.2. Relevant identified uses of the substance or mixture and uses advised against		
Uses:	Tissue samples fixation	
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:	msds@biognost.hr	
National contact:	-	
1.4. Emergency telephone number		
National Protection and Rescue Directorate:	112	
Medical information:	+3851 2348-342	
Other information:	-	

SECTION 2 HAZARDS INFORMATION		
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
	STOT SE 2	H371
2.1.2. Additional information		
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*For full text of Hazard- and EU Hazard-statements: see Section 16		
2.2. Label 1272/2008 (CLP)		

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Product identification:	FORMALDEHYDE 37% FOR USE IN HISTOLOGY
Identification number:	-
Authorization no.:	-
Hazard pictograms:	 GHS06  GHS08  GHS05
Signal word:	Danger
Hazard statements:	H301 + H311 + H331 Toxic if swallowed, in contact with skin or 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. H371 Toxic if inhaled, if it comes into contact with skin, and if swallowed.
Precautionary statements:	P280 Wear protective gloves/protective clothing/eye/protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting. P302+P352 IF ON SKIN: Wash with plenty of water and soap. 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. P403 Store in a well-ventilated place.
Further information:	-
2.3. Other hazards	-

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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)
50-00-0/ 200-001-8/ 605-001-00-5	01-2119488953-20-XXXX	≥ 25	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	methanol	Flam. Liq. 2, H225 Acute Tox. 3, H331 Acute Tox. 3, H311 Acute Tox. 3, H301 STOT SE 1, H370

SECTION 4 FIRST AID MEASURES

4.1. Description of first aid measures	
General notes:	Note for the person providing first aid measures/physician: in case of inhaling, due to possible onset of delayed pulmonary oedema (up to 48 hours), the afflicted person should be kept observed.
Following inhalation:	Carry the afflicted person out of the contaminated area into a well-ventilated area or out for fresh air. 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:	Remove all contaminated clothes using sterile gauze. Immediately wash with plenty of water for at least 20 minutes. Seek medical assistance if the symptoms of corrosion remain.
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:	Rinse the oral cavity, drink at most 1-2 glasses of water. Do not induce vomiting. 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.

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Following skin contact:	Irritation, redness with stinging and pain, skin cracking, rash, swelling, burns, blisters and delayed onset of inflammatory processes may occur.
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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SECTION 5 Firefighting measures	
5.1.	Extinguishing media
	Suitable extinguishing media: water, foam, dry powder, CO ₂ , water spray or alcohol resistant foam
	Unsuitable extinguishing media: No information available
5.2.	Special hazards arising from the substance or mixture
	Hazardous combustion products: Formalin solution is not flammable in itself. Gases released from the solution are flammable if the concentration of the solution is >25%. In case of combustion carbon dioxide and carbon monoxide will be released, which are heavier than air. Vapours are heavier than air and may spread along the floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
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. Substance is corrosive, enters into reaction with metals. Avoid contact with iron.
5.4.	Additional information
	Remove sources of heat and ignition. Do not contaminate the environment with extinguishing media.

SECTION 6 ACCIDENTAL RELEASE MEASURES	
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 members of all non-essential personnel and those members without protective equipment. Avoid breathing vapors and avoid contact with skin and eyes. 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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	Use protective equipment; in case of inadequate ventilation use adequate airways protective equipment (see Section 8).	
6.2.	Environmental precautions:	
	Do not dispose of in sewage, drainage system and waterways. In case of large spillage contact National Protection and Rescue Directorate (NPRD) on 112.	
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.	

SECTION 7 HANDLING AND STORAGE		
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.
	Requirements for storage rooms and vessels:	Keep away from food and drink. Keep the containers tightly closed.

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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:	-
Special decisions for industry sector:	-

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 ³	
Formaldehyde	50-00-0	2	2.5	-
Methanol	67-56-1	200	260	-

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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	1 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol)	260 mg/m ³ (methanol)	0.5 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol)	9 mg/m ³ (formaldehyde) 260 mg/m ³ (methanol)
Dermal	-	40 mg/kg (methanol)	0.037 mg/cm ² (formaldehyde)	240 mg/kg (formaldehyde) 40 mg/kg (methanol)

Critical physical parameters: solubility, flammability, corrosivity: -

Consumer

Route of exposure:	Acute effect local	Acute effect systemic	Chronic effect local	Chronic effect systemic
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Oral	-	8 mg/kg (methanol)	-	4.1 mg/kg (formaldehyde) 8 mg/kg (methanol)
Inhalation	50 mg/m ³ (methanol)	50 mg/m ³ (methanol)	0.1 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol)	3.2 mg/m ³ (formaldehyde) 50 mg/m ³ (methanol)
Dermal	-	8 mg/kg (methanol)	0.012 mg/cm ² (formaldehyde)	120 mg/kg (formaldehyde) 8 mg/kg (methanol)

PNEC

Environmental protection target	PNEC
Fresh water	0.47 mg/l (formaldehyde) 154 mg/l (methanol)
Freshwater sediments	2.44 mg/kg (formaldehyde) 570.4 mg/kg (methanol)
Marine water	0.47 mg/l (formaldehyde) 15.4 mg/l (methanol)
Marine sediments	2.44 mg/kg (formaldehyde)
Food chain	No information available
Microorganisms in sewage treatment	0.19 mg/l (formaldehyde) 100 mg/l (methanol)
Soil (agricultural)	0.21 mg/kg (formaldehyde) 23.5 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.
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.
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8.2.2.2.	Skin protection	
	Hand protection:	The protective gloves have to satisfy the specification of Regulation (EU) 2016/425 and the related standard EN374. Full contact: Glove material: nitrile rubber Glove thickness: 0.40 mm Time until perforation: > 480 min Splash contact: Gloves material: polychloroprene Glove thickness: 0.65 mm Time until perforation: >240 min
	Other skin protection:	Complete suit protecting against chemicals (EN 340) The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace and shoes that cover the entire foot.
8.2.2.3.	Respiratory protection:	Use mask that covers the entire face (EN 136). Recommended filter type: ABEK (EN 143). 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 (20-66°C, 1013 hPa)	No information available
	Color:	colourless	No information available
	Odor:	pungent	No information available
	Odor threshold:	0.05 – 0.125 ppm (formaldehyde)	No information available
	pH:	2.8 – 4.5	No information available
	Melting point / freezing point;	<-15 °C	No information available
	Initial boiling point and boiling range:	> 97 °C at 1013 hPa	No information available
	Flash point:	>62 °C	No information available

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Evaporation rate:	No information available	No information available
Flammability (solid, gas):	No information available	No information available
Upper/lower flammability or explosive limits:	lower: 7 vol.% (formaldehyde) upper: 73 vol % (formaldehyde)	No information available
Vapor pressure:	0.13 kPa	No information available
Vapor density:	No information available	No information available
Relative density:	1.07 – 1.13 g/cm ³	No information available
Bulk density:	No information available	No information available
Solubility(ies):	max. 550 g/l in water	No information available
Partition coefficient: n-octanol/water (log Kow):	No information available	No information available
Auto-ignition temperature:	430 °C (at 1013 hPa)	No information available
Decomposition temperature:	No information available	No information available
Viscosity:	2.083 – 2.85 mPas (20°C)	No information available
Explosive properties:	Not classified as explosive.	No information available
Oxidising properties:	No information available	No information available
9.2.	Other information	
	Aqueous solution is non-flammable, if concentration is <45% and not stabilized with methanol	

SECTION 10 STABILITY AND REACTIVITY		
10.1.	Reactivity:	No information available.
10.2.	Chemical stability:	The product is chemically stable under standard ambient conditions of storing and using (room temperature). 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:	No information available.

SECTION 11 TOXICOLOGICAL INFORMATION	
11.1.	Information on toxicological effects
	Acute toxicity:

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Route of exposure:	Method	Species	Effective dose LD ₅₀ /LC ₅₀ or ATE _{mixture}	Exposure time	Results
Oral exposure:	No information available	rat	LD ₅₀	No information available	>200 mg/kg (formaldehyde) >2000 mg/kg (methanol)
Dermal:	No information available	rabbit	LD ₅₀	No information available	>270 mg/kg (formaldehyde) >12000 mg/kg (methanol)
Inhalation:	No information available	rat	LC ₅₀	4 h	0.58 mg/l (formaldehyde) >12000 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:	No information available	No information available	-
Inhalation:	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:	-	-	-	-	strong corrosive effect on skin surface and mucous membrane
Serious eye damage/irritation	-	-	-	-	strong irritative effect on the eyes, can cause serious eye damage

Sensitization

Dermal exposure:	May cause allergic skin reaction.
Inhalation exposure:	Allergic persons may display irritation.

Symptoms related to the physical, chemical and toxicological characteristics

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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	-
Chronic inhalation	No information available	No information available	No information available	No information available	No information available	-

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	-

CMR effects (carcinogenicity; mutagenicity; reproductive toxicity)	
Carcinogenicity:	Based on the test of the IARC carried out on rats, appearance of tumor in the nose and in the pharynx had been experienced. Test on other species have no results. If the employee observes the personal hygienic rules and use personal protective equipment specified in the exposure scenario, then these hazards are not exist.
Mutagenicity <i>in-vitro</i> :	No information available.
Genotoxicity:	No information available
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

11.2.	Practical experiences:
	Remarks relevant for classification: No information available
	Other remarks: No information available
11.3.	General notes:
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SECTION 12 ECOLOGICAL INFORMATION:						
12.1.	Toxicity					
Acute (short-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note

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Fish	LC ₅₀	96 hours	<i>Pimephales promelas</i>	-	24.1 - 41 mg/l (formaldehyde)	-
Crustacea:	EC ₅₀	48 hours	<i>Daphnia magna</i>	-	2 mg/l (formaldehyde)	-
Algae/aquatic plants	IC ₅₀	8 days	algae	-	2.5 mg/l (formaldehyde)	-
Other organisms	-	-	-	-	-	-

Chronic (long-term) toxicity	Dose	Exposure time	Species	Method	Evaluation	Note
Fish	LC ₅₀	96 hours	No information available	No information available	No information available	-
Crustacea:	EC ₅₀	48 hours	No information available	No information available	No information available	-
Algae/aquatic plants	IC ₅₀	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	-

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

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0.021	No information available	-	-	No information available	No information available	No bioaccumulation expected
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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 ₅₀	No information available	No information available	No information available	No information available	-
Chronic toxicity on crustacea (Daphnia)	EC ₅₀	No information available	No information available	No information available	No information available	-

12.4. Mobility in soil

Known or predicted distribution in environmental compartments:

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	-

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Water-air	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	-

12.5. Results of PBT and vPvB assessment
Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex III or a PBT/vPvB assessment was not conducted.

12.6. Other adverse effects
Disinfectant effect. If in contact with soil and/or water in high doses, it may endanger drinking water sources. Avoid release to the environment.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal:
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.

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:
Directive 2009/98/EC on waste and repealing certain directives.

SECTION 14. TRANSPORT INFORMATION

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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
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:	-

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Product code:	F37H-X**	Revision date:	20.05.2019.	Version:	3

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: -
	Other EU regulations: EC Regulation No. 1906/2007 and EC Regulation No. 1272/2008 of the European Parliament and the European Council; 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); EC Regulation No. 2037/2000 of the European Parliament and Council from 29 June 2000 on substances that damage the ozone layer; EC Regulation No. 689/2008 of the European Parliament and Council from 17 June 2008 concerning the export and import of dangerous chemicals; EC Regulation No. 850/2004 of the European Parliament and Council from 29 April 2004 about persistent organic pollutants; Directive 2008/98/EC of the European Parliament and Council of 19 November 2008 on waste and repealing certain Directives
	Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
	National legislation: 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
15.2.	Chemical safety assessment
	No chemical safety assessment in accordance with the EU REACH Legislation was conducted.

SECTION 16 Other information	
16.1.	Indication of changes: -

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16.2.	Abbreviations and acronyms:	PBT	Stable, bioaccumulative and toxic
		vPvB	Strongly stable and strongly bioaccumulative.
		LD ₅₀	Lethal dose, 50%
		LC ₅₀	Lethal concentration, 50%
		STOT-SE	Specific target organ toxicity – single exposure
		IMDG	International Maritime Dangerous Goods
		IATA	International Air Transport Association
		GHS	Globally Harmonized System of Classification and Labelling of Chemicals
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	
	-	-	
16.5.	Relevant H statements (number and full text)		
	H:	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
		317	May cause allergic skin reaction.
		341	Suspected of causing genetic defects.
		350	May cause cancer.
		370	Causes damage to organs.
		371	May cause damage to organs.
16.6.	Training advice:	-	
16.7.	Further information:	** "X" in the product code marks different volumes (different packagings of the product) 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.	

ANNEX:
EXPOSURE SCENARIO RESULTING TO CHEMICAL SAFETY ASSESSMENT
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