## SAFETY DATA SHEET



Markers and Ladders - Group C

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

1.1 Product identifier

**Product name** : Markers and Ladders - Group C

Part no. : DNF-369-0004, DNF-370-0004, FP-8201-0003

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

**Identified uses** : Analytical reagent.

> DNF-369-0004 RNA Diluent Marker (15NT), 4mL DNF-370-0004 HS RNA Diluent Marker (15NT), 4mL FP-8201-0003 FP US RNA Diluent Marker, 3mL

**Uses advised against** : None known.

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

Agilent Technologies Deutschland GmbH

Hewlett-Packard-Str. 8 76337 Waldbronn

Germany 0800 603 1000

e-mail address of person : pdl-msds\_author@agilent.com

responsible for this SDS

#### 1.4 Emergency telephone number

**Emergency telephone** 

: CHEMTREC®: +353 1 901 4670

number (with hours of

operation)

## SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

CARCINOGENICITY Category 2 REPRODUCTIVE TOXICITY Category 1B H360 H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED Category 2

**EXPOSURE** 

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

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

### 2.2 Label elements

**Hazard pictograms** 



Signal word

H351 - Suspected of causing cancer. **Hazard statements** 

H360 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

**Prevention** : P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P260 - Do not breathe vapour.

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## **SECTION 2: Hazards identification**

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. Response

**Storage** Not applicable.

**Disposal** : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

**Hazardous ingredients** : formamide Supplemental label

elements

: Not applicable.

**Annex XVII - Restrictions** on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

: Restricted to professional users.

**Special packaging requirements** 

Tactile warning of

danger

: Not applicable.

#### 2.3 Other hazards

**Product meets the** criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, **Annex XIII** 

: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do

not result in classification : None known.

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

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
formamide	EC: 200-842-0 CAS: 75-12-7	≥50 - ≤75	Carc. 2, H351 Repr. 1B, H360 STOT RE 2, H373 (blood) (oral) See Section 16 for the full text of the H statements declared above.	-	[1] [2] [3]

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

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance with carcinogenic, mutagenic or reproductive toxicity properties

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

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

#### 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may

need to be kept under medical surveillance for 48 hours.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing

such as a collar, tie, belt or waistband.

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

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

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

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

**Over-exposure signs/symptoms** 

**Eye contact** : No specific data.

**Inhalation** : Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

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## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

: None known.

media

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

Hazards from the substance or mixture

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products

: Decomposition products may include the following materials: carbon dioxide

carbon dioxide carbon monoxide nitrogen oxides

## 5.3 Advice for firefighters

Special precautions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

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

## **6.2 Environmental precautions**

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# 6.4 Reference to other sections

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

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## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Avoid breathing vapour or mist. Avoid contact with eyes, skin and clothing. Do not ingest. Empty containers retain product residue and can be hazardous. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Do not breathe vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid exposure during pregnancy.

## Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

## **Storage**

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## 7.3 Specific end use(s)

Recommendations

: Industrial applications, Professional applications.

**Industrial sector specific** 

solutions

: Not available.

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

## 8.1 Control parameters

## Occupational exposure limits

Product/ingredient name	Exposure limit values
formamide	NAOSH (Ireland, 4/2024) Repr 1B. Absorbed through skin. Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV 8 hours: 10 ppm. OELV 8 hours: 18 mg/m³.

#### **Biological exposure indices**

No exposure indices known.

## Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## **DNELs/DMELs**

## **Product/ingredient name**

formamide

## Result

DNEL - Workers - Long term - Dermal 0.952 mg/kg bw/day

DNEL - Workers - Long term - Inhalation 6.6 mg/m<sup>3</sup>

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

## **PNECs**

Not available.

#### 8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

## **Skin protection**

**Hand protection** 

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

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### **Appearance**

**Physical state** : Liquid.

Colour : Not available. **Odour**  Not available. **Odour threshold** : Not available.

Melting point/freezing

point

: 0°C

**Boiling point or initial** boiling point and boiling

: 100°C

range

**Flammability** Not applicable.

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

Lower and upper explosion limit/ flammability limit : Not available.

Flash point

	Closed cup		Open cup		
Ingredient name	°C	Method	°C	Method	
formamide	150	-	152	DIN EN ISO 2592	

**Auto-ignition** temperature

Method Ingredient name °C formamide >500 ASTM D 2155-66

**Decomposition** temperature

: Not available.

pН

**Viscosity** 

Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): Not available.

**Solubility** 

Media	Result
water	Soluble

Partition coefficient: n-

octanol/water

: Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vap	Vapour pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
water	17.5	2.3	-	92.258	12.3	-		
formamide	0.045	0.006	-	-	_	-		

: Not available. **Relative density** Relative vapour density : Not available.

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

**Explosive properties**  Not available. : Not available. **Oxidising properties** 

9.2.2 Other safety characteristics Miscible with water Yes

: Not available. **Evaporation rate** : Not available. Physical/chemical

properties comments

## SECTION 10: Stability and reactivity

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

10.2 Chemical stability : The product is stable.

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

10.4 Conditions to avoid No specific data.

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## **SECTION 10: Stability and reactivity**

10.5 Incompatible

materials

: May react or be incompatible with oxidising materials.

Rabbit - Dermal - LD50

Rat - Oral - LD50

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

not be produced.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

**Acute toxicity** 

Product/ingredient name

Result

formamide

17 g/kg 5570 mg/kg Rat - Male - Inhalation - LC50 Dusts and mists >21 mg/l [4 hours]

Conclusion/Summary

[Product]

: Not available.

## **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapours)	
formamide	5570	17000	N/A	N/A	N/A

**Skin corrosion/irritation** 

**Conclusion/Summary** 

[Product]

: Not available.

**Conclusion/Summary Ingredient name** formamide May cause skin irritation.

Serious eye damage/eye irritation

Conclusion/Summary : Not available.

[Product]

formamide

**Ingredient name** 

**Conclusion/Summary** May cause eye irritation.

Respiratory corrosion/irritation

**Conclusion/Summary** : Not available.

[Product]

## Respiratory or skin sensitization

Skin

**Conclusion/Summary** 

: Not available.

[Product]

Respiratory

**Conclusion/Summary** 

: Not available.

[Product]

Germ cell mutagenicity

**Conclusion/Summary** 

[Product]

: Not available.

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## **SECTION 11: Toxicological information**

Carcinogenicity

**Conclusion/Summary** 

[Product]

: Not available.

**Reproductive toxicity** 

**Conclusion/Summary** 

[Product]

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Product/ingredient name Result

formamide STOT RE 2, H373 (blood) (oral)

## **Aspiration hazard**

Not available.

## Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

**Eye contact**  No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. **Skin contact** : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

: No specific data. **Eye contact** 

Inhalation : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

**Potential immediate** 

: Not available.

effects

effects

Potential delayed

: Not available.

**Long term exposure** 

**Potential immediate** 

: Not available.

effects

Potential delayed

effects

: Not available.

## Potential chronic health effects

**Conclusion/Summary** 

[Product]

: Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

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## **SECTION 11: Toxicological information**

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility or the unborn child.

#### 11.2 Information on other hazards

## 11.2.1 Endocrine disrupting properties

**Conclusion/Summary** 

[Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or

Regulation (EC) No 1272/2008.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

Product/ingredient name Result

formamide Acute - LC50 - Fresh water 6569 mg/l [96 hours]

Acute - NOEC - Fresh water 4640 mg/l [96 hours]
Acute - EC50 - Fresh water >500 mg/l [48 hours]
Acute - NOEC - Fresh water 4640 mg/l [72 hours]
Acute - EC50 - Fresh water >500 mg/l [72 hours]

Conclusion/Summary

[Product]

: Not available.

## 12.2 Persistence and degradability

Product/ingredient name Result

formamide Aerobic 99% [28 days] - Readily Aerobic

Conclusion/Summary

[Product]

: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
formamide	-	-	Readily

## 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
formamide	-0.82	-	Low

#### 12.4 Mobility in soil

#### Soil/water partition coefficient

Product/ingredient name	logKoc	Koc
formamide	0.51	3.21896

## Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
formamide	No	No	Yes	Yes	No	No	Yes

Mobility : Not available.

**Conclusion/Summary**: The product does not meet the criteria to be considered as a PMT or vPvM.

## 12.5 Results of PBT and vPvB assessment

## Regulation (EC) No. 1907/2006 [REACH]

Product/ingredient name	PBT	P	В	T	vPvB	vP	vB
formamide	No	No	No	Yes	No	No	No

Regulation (EC) No. 1272/2008 [CLP]

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## **SECTION 12: Ecological information**

Product/ingredient name	PBT	P	В	T	vPvB	vP	vB
formamide	No	No	No	Yes	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

#### 12.6 Endocrine disrupting properties

## Conclusion/Summary [Product]

: The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

## **Product**

**Methods of disposal** 

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

**Hazardous waste** 

**Packaging** 

**Methods of disposal** 

- : The classification of the product may meet the criteria for a hazardous waste.
- : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

14.6 Special precautions for user

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

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## **SECTION 14: Transport information**

14.7 Transport in bulk according to IMO instruments

: Not available.

## **SECTION 15: Regulatory information**

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

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

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

Substances of very high concern

Ingredient name	Intrinsic property			Date of revision
Formamide	Toxic to reproduction	Candidate	ED/87/2012	6/18/2012

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Designation [Usage]
	- EC: 200-842-0 CAS: 75-12-7	3 30 30

**Labelling**: Restricted to professional users.

## **Other EU regulations**

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

**Persistent Organic Pollutants** 

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

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## **SECTION 15: Regulatory information**

**Eurasian Economic** 

Union

: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.Republic of Korea: All components are listed or exempted.Taiwan: All components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and** 

acronyms

: ATE = Acute Toxicity Estimate

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

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Carc. 2, H351	Calculation method
Repr. 1B, H360	Calculation method
STOT RE 2, H373	Calculation method

#### Full text of abbreviated H statements

H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated
	exposure.

## Full text of classifications [CLP/GHS]

Carc. 2	CARCINOGENICITY - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE
	- Category 2

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revision

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### **Notice to reader**

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