

# Safety data sheet



Revision nr. 1  
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## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name FORMULA 388  
Code: 294006021-EU

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

Intended use Bowling Lane Cleaner – PROFESSIONAL USE  
Uses advised against Uses other than those stated.

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

Name. EUROPEAN BOWLING DISTRIBUTION  
Full address. Brieltjenspolder 42  
District and Country. 4921 PJ - Made  
The Netherlands  
Tel : +31(0)162-671084  
Email: info@urbowdis.eu

e-mail address of the competent person.  
responsible for the Safety Data Sheet.  
EU-Chemicals@qubicaamf.com

### 1.4. Emergency telephone number.

For urgent inquiries refer to.  
For United Kingdom 111 (NHS Sevice)  
For Ireland +353 01 809 2166 (8 AM - 10 PM. 24h only for doctors)  
ChemTel 24-hour Emergency Numbers +1-813-248-0585

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1 H318 Causes serious eye damage.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: **Danger**  
Hazard statements:  
H318 Causes serious eye damage.

Precautionary statements:

P280 Wear eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER / doctor

Contains: ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO

Ingredients according to Regulation (EC) No. 648/2004  
5% or over but less than 15% non-ionic surfactants

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO		
CAS 68439-46-3	6 ≤ x < 7.5	Eye Dam. 1 H318
EC 614-482-0		
INDEX -		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE

(personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

Specific information on symptoms and effects caused by the product are unknown.

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

In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

For those who do not intervene directly

Evacuate untrained personnel.

Do not inhale the vapors. Avoid dispersion of the product in the environment. Follow appropriate internal procedures for personnel not authorized to intervene directly in case of accidental release.

For those who intervene directly

Wear appropriate protective equipment (including personal protective equipment referred to in Section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. Follow appropriate internal procedures for personnel

authorized to intervene directly in case of accidental release. Check the fumes / vapors.  
Remove unmanned persons. Eliminate any source of ignition (cigarettes, flames, sparks, etc.) or heat from the area in which the leak occurred.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

#### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

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

No use other than specified in Section 1.2 of this safety data sheet.

## SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

Information not available

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

Use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

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

Appearance	liquid
Colour	Clear green
Odour	Mild alcohol
Odour threshold	Not available
pH	10.5
Melting point / freezing point	Not available
Initial boiling point	100 °C
Boiling range	Not available
Flash point	> 60 °C
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower flammability limit	Not available
Upper flammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.001 - 1.011
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

#### 9.2. Other information

Information not available

## SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO: Acids, alkali, halogen, caustic, reactive chemical compounds.

#### 10.6. Hazardous decomposition products

For thermal decomposition or in the event of fire, gases and vapors potentially harmful to health can be released.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### 11.1. Information on toxicological effects

##### ACUTE TOXICITY

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO

Method: equivalent or similar to OECD 401, read across

Reliability (Klimisch score): 2

Species: rat (Wistar Male/Female)

Route of administration: oral

Results DL50: 3488 mg/kg

Method: equivalent or similar to OECD 403, read across

Reliability (Klimisch score): 2

Species: rat (Wistar Male/Female)

Route of administration: inhalation (vapour)

Results CL50: > 0,1 mg/l 6h (saturated vapor)

Method: equivalent or similar to OECD 402, read across

Reliability (Klimisch score): 2

Species: rat (Wistar Male/Female)

Route of administration: dermal

Results DL50: > 2000 mg/kg.

##### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Method: OECD 404, read across  
Affidabilità (Klimisch score): 2  
Species: rabbit white (New Zealand)  
Results: not irritating.

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Method: OECD 405, read across  
Reliability (Klimisch score): 2  
Species: rabbit white (New Zealand)  
Degree of ethoxylation: 1.4  
Results: causes eye damage Cat. 2.  
Method: OECD 405, read across  
Reliability (Klimisch score): 2  
Species: rabbit white (New Zealand)  
Degree of ethoxylation: 2  
Results: causes eye damage Cat. 1.

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Date not available.

Skin sensitization

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Method: equivalent or similar to OECD 406, read across  
Reliability (Klimisch score): 2  
Species: guinea pig (Breeding Unit 'P' Strain Male/Female)  
Results: not sensitizing.

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO

In vitro test  
Method: equivalent or similar to OECD 473, read across (Dodecyl alcohol)  
Reliability (Klimisch score): 2  
Species: Chinese hamster (ovaie)  
Results: negative with metabolic activation - negative without metabolic activation

In vivo test: Date not available.

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Date not available.

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility  
ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Method: equivalent or similar to OECD 416  
Reliability (Klimisch score): 2

Species: rat (Fischer 344 Male/Female)  
Route of administration: dermal  
Results NOAEL (reprotoxicity)(P/F1): > 250 mg/kg body weight / day  
Results NOAEL (development)(F1/F2): > 250 mg/kg body weight / day  
Results NOEL (systemic)(P/F1): 100 mg/kg body weight / day  
Results NOAEL (systemic)(P/F1): > 250 mg/kg body weight / day  
The substance did not show any effects of toxicity for fertility and / or dermal function, by dermal route.

Adverse effects on development of the offspring  
ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
Method: equivalent or similar to OECD 416  
Reliability (Klimisch score): 2  
Species: rat (Fischer 344)  
Route of administration: dermal  
Results NOAEL (svil development uppo): > 250 mg/kg body weight / day  
Results NOEL (mother): 100 mg/kg body weight / day  
Results NOAEL (mother): > 250 mg/kg body weight / day  
The substance did not show any toxic effects on progeny development, by dermal route.

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO

Based on available data, the substance does not have specific target organ toxicity effects for single exposure and is not classified under its CLP hazard class.

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO

Based on available data, the substance does not have specific toxicity for target organs for repeated exposure and is not classified under its CLP hazard class.  
Method: equivalent or similar to OECD 408, read across (C14-15, alcohol, ethoxylated)  
Reliability (Klimisch score): 2  
Species: rat (Wistar Male/Female)  
Route of administration: oral  
Results NOAEL (systemic): > 500 mg/kg body weight / day  
Stot - Repeated Exposure (inhalation): Date not available  
Stot - Repeated Exposure (dermal): Date not available.

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
No data are available on the risk of aspiration.

## **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### **12.1. Toxicity**

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO  
LC50 - for Fish 5 mg/l/96h Oncorhynchus mykiss; no guideline,

EC50 - for Crustacea study report (1979)  
2,5 mg/l/48h Daphnia magna; no guideline,  
study report (1985)

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

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO: Rapidly degradable: 72% in 28d (ISO 14593).

#### **12.3. Bioaccumulative potential**

Information not available

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

Information not available

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### **12.6. Other adverse effects**

Information not available

## **SECTION 13. Disposal considerations**

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

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### **14.1. UN number**

Not applicable

#### **14.2. UN proper shipping name**

Not applicable

#### **14.3. Transport hazard class(es)**

Not applicable

#### **14.4. Packing group**

Not applicable

#### **14.5. Environmental hazards**

Not applicable

#### **14.6. Special precautions for user**

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

## SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3.

Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:

- (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;
- (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;
- (c) hazard class 4.1;
- (d) hazard class 5.1.

#### Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

#### Substances subject to authorisation (Annex XIV REACH)

None

#### Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

#### Substances subject to the Rotterdam Convention:

None

#### Substances subject to the Stockholm Convention:

None

#### Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### Regulation (EC) No. 648/2004

Ingredients according to Regulation (EC) No. 648/2004

The surfactant contained in this preparation complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

ALCOHOLS, C9-11 ETHOXYLATED, < 2.5 EO:

Biodegradability complete: 90.23 % in 28 days

Method: OECD 301B

Test report n°: 17LA04923 of 25/10/2017

#### German regulation on the classification of substances hazardous to water (VwVwS 2005)

WGK 2: Hazard to waters

### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16. Other information

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Serious eye damage, category 1, H318 - Causes serious eye damage.	Calculation method

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Dam. 1	Serious eye damage, category 1
H318	Causes serious eye damage.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament

2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

- The Merck Index. - 10th Edition

- Handling Chemical Safety

- INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology

- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

- IFA GESTIS website

- ECHA website

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

### Note for the recipient of the Safety Data Sheet (SDS):

The recipient of this SDS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance or mixture to which this SDS is referred to. In particular, the recipient shall provide adequate training to the personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance or mixture.

However, the substance or mixture referred to by this SDS shall not be used for uses other than those specified in Section 1. The Supplier don't assume responsibility for improper uses. Since the use of the product does not fall under the direct control of the Supplier, the user shall, under his own responsibility, fulfill national and EU regulations concerning health and safety.

The information included in this SDS are provided in good faith and are based on the current state of scientific and technical knowledge, at the revision date indicated, available to the Supplier indicated in Section 1 of this SDS. It shall not be meant that the SDS is a guarantee of any specific property of the substance or mixture. The information concern only to the substance or mixture specifically designated in Section 1 and it could not be valid for the substance or mixture used in combination with other materials or in any process not specified in the text.

This version of the SDS substitutes all the previous versions.