



Trade name: **PYROSIT® NG 2-component fire protection foam** 

Version: 2 Date of issue/Latest revision: Date of issue: 28. 02. 2023 Page: 1/(14)

(Manufacturer) - / 15. 05. 2023 Date of revision: 08. 07. 2024

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

1.1. Product identifier:

## **PYROSIT® NG 2-component fire protection foam**

UFI: 3PAQ-GAPQ-A72F-YP07

Article number / Type: 7203800 / FBS-S

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

Relevant identified uses: two-component fire protection foam. Use by professional

workers. Consumer use.

Uses advised against: application other than the above.

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

**Distributor Details:** 

OBO Bettermann Produktion Deutschland GmbH & Co. KG

Hüingser Ring 52, 58710 Menden (Sauerland), Germany

Tel.: +49 2373 890

Fax: +49 2373 89238

E-mail: info@obo.de

Responsible for SDS:

OBO Bettermann Produktion Deutschland GmbH & Co. KG

Hüingser Ring 52, 58710 Menden (Sauerland), Germany

Tel.: +49 2373 890

Fax: +49 2373 89238

E-mail: info@obo.de

1.4. Emergency telephone number

National Poisons Information Centre in Ireland:

Tel.: 01 809 2166 (between 8am and 10pm for members of the public)

Tel: 01 809 2566 (Professionals, 24/7)

#### **SECTION 2:** Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category: Hazard statement:

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1. H317 May cause an allergic skin reaction.

Eye Irrit. 2 H319 Causes serious eye irritation.





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Resp. Sens. 1 H334 May cause allergy or asthma symptoms of

breathing difficulties if inhaled.

STOT SE 3 H335 May cause respiratory irritation.
Carc. 2 H351 Suspected of causing cancer.
Repr. 2 H361f Suspected of damaging fertility.

STOT RE 2 H373 May cause damage to organs through prolonged

or repeated exposure through prolonged or

repeated exposure.

2.2. Label elements

Product identification: Trade name: 2-component fire protection foam PYROSIT® NG

Hazardous components: Isocyanic acid, polymethylenepolyphenylene ester; Melamine

GHS Pictogram:



Signal word: **Danger** 

Hazard statement:

**H315** Causes skin irritation.

**H317** May cause an allergic skin reaction.

**H319** Causes serious eye irritation.

**H334** May cause allergy or asthma symptoms of breathing difficulties if inhaled.

H335 May cause respiratory irritation.H351 Suspected of causing cancer.H361f Suspected of damaging fertility.

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

prolonged or repeated exposure.

Supplemental hazard information:

**EUH204** Contains isocyanates. May produce an allergic reaction.

Precautionary statements – General:

**P101** If medical advice is needed, have product container or label at hand.

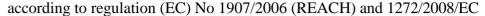
Precautionary statements – Prevention:

**P201** Obtain special instructions before use.

**P260** Do not breathe dust, mist.

**P280** Wear protective gloves, protective clothing, eye protection, face protection.

**P284** In case of inadequate ventilation wear respiratory protection.





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Precautionary statements – Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

+ **P338** lenses, if present and easy to do. Continue rinsing.

**P308** + **P313** IF exposed or concerned: Get medical advice/attention.

**P342** + **P311** If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Precautionary statements – Storage:

P405 Store locked up.

Precautionary statements – Disposal:

**P501** Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Required for consumer use.

Child-resistant fastening: Not required.

Transport classification: see section 14.

As from 24 August 2023 adequate training is required before industrial or professional use'

#### 2.3. Other hazards

People with respiratory hypersensitivity cannot handle the product.

Results of PBT and vPvB assessment: no data.

Endocrine disrupting properties: no data.

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

### 3.2. Mixtures

Chemical description: Mixtures of the following substances and non-hazardous substances.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Isocyanic acid, polymethylenepolyphenyl ene ester REACH Registr. Nr.: no data	618-498-9	9016-87-9	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Acute Tox. 4 Resp. Sens. 1 STOT SE 3 Carc. 2 STOT RE 2	H315 H317 H319 H332 H334 H335 H351 H373	10-30
Melamine * REACH Registr. Nr.: no data	203-615-4	108-78-1	Carc. 2 Repr. 2 STOT RE 2	H351 H361f H373	<10



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Nama	EC	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	% (m/m)
Ethanediol	203-473-3	107-21-1	Acute Tox. 4	H302	<1.0
REACH Registr. Nr.:			STOT RE 2	H373	
01-2119456816-28					

<sup>\*</sup> SVHC candidate list

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

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

4.1. Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never

induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain

medical attention.

Give oxygen if necessary. If breathing stops, apply artificial respiration.

If unconscious, place in recovery position.

Skin contact: Wash skin with large amounts of water, use soap. Apply a generous amount of

polyethylene glycol 400 if available. In case of persistent irritation, get medical

attention.

Eye contact: Flush immediately with plenty of running water, holding the eyelids open.

Remove contact lenses, if present and easy to do. Continue rinsing for 10-15

minutes. In case of persistent irritation, get medical attention.

Ingestion: Rinse mouth thoroughly with water. DO NOT induce vomiting. Get prompt

medical attention.

Protection of first-aid person: No data.

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

Causes skin irritation.

May cause an allergic skin reaction.

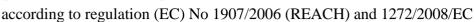
Causes serious eye irritation. Other symptoms include temporary mild redness and swelling of the conjunctiva and mild, reversible clouding of the cornea.

May cause allergy or asthma symptoms of breathing difficulties if inhaled.

May cause respiratory irritation. Other symptoms: bronchoconstriction, irritation of the nose, throat, lungs, headache, dry throat, difficulty breathing, chest pressure.

Suspected of causing cancer.

Suspected of damaging fertility.





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

Symptoms may even occur after several hours.

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

## **SECTION 5:** Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder. In case of a larger fire water spray.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide isocyanate vapours, traces of hydrogen cyanide, nitrogen oxide, and other toxic fumes / gases can be formed.

5.3. Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

Further information:

As a result of heat, pressure may increase and the containers may burst.

In case of fire, keep containers cool with water spray.

Collect contaminated fire-fighting water separately. It must not enter the sewage system.

Contaminated extinguishing water must be disposed of in accordance with official regulations.

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

6.1. Personal precautions, protective equipment and emergency procedures

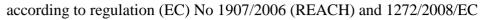
Personal precautions: see Section 8.

Keep persons not involved in rescue at a distance.

Sufficient ventilation should be provided.

Avoid contact with skin, clothing and eyes, inhalation of vapours.

Danger of slipping on leaked out/spilled product.





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## 6.2. Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

6.3. Methods and material for containment and cleaning up

The product must be collected mechanically and then stored in an appropriately labelled container until proper disposal. The contaminated area must be cleaned.

6.4. Reference to other sections

Personal precautions: see section 8. Waste treatment methods: see section 13.

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

## 7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals.

Adequate ventilation must be provided.

Avoid contact with skin and eyes. Avoid prolonged breathing of vapours.

An evewash station should be available at the work site.

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: no data.

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

Storage facilities must comply with regulations for storing of chemicals.

Store in dry, cool well-ventilated place in original, closed containers. Keep away from incompatible materials.

It must not come into contact with water.

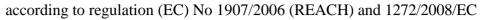
Penetration into the soil must be safely prevented.

Keep away from food, drink and feed.

Storage temperature: 5-30°C.

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

Two-component fire protection foam. Use by professional workers. Consumer use.





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

## 8.1. Control parameters:

Substance	CAS number	Occupational Exposure Limit Value (8-hour reference period)		Value (15-minute		Notes
		ppm	$mg/m^3$	ppm	mg/m <sup>3</sup>	
Ethane-1,2-diol	107-21-1	20	52	40	104	Sk, IOELV

## 8.2. Exposure controls

Engineering control measures:

Adequate ventilation (general or local exhaust).

Personal protection:

Tightly fitting safety goggles (EN ISO 16321-1:2022). (a) Eye/face protection

Ensure that eyewash stations are close to the workstation location.

(b) Skin protection

Hand protection Protective gloves (EN 374)

Material:

Nitrile:  $\geq 0.35 \text{ mm}$ Butyl:  $\geq 0.5 \text{ mm}$ 

Viton - FKM,  $\geq 0.4$  mm

PVC > 0..5 mm

Note: Manufacturer's directions for use and the conditions of

application should be observed.

Protective clothing. Other (ii)

In case of exceeded exposure-limits respiratory protection with (c) Respiratory protection

particle-filter is recommended (filter type A2-P2, EN 14387).

fluid

(d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

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

9.1. Information on basic physical and chemical properties

Physical state:

Colour: reddish brown **b**) c)

Odour: characteristic

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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d) Melting point/freezing point (Pour point): not available

e) Boiling point or initial boiling point and boiling range: not available

f) Flammability: not available

g) Lower and upper explosion limit: not available

h) Flash point: not applicable

i) Auto-ignition temperature: not applicable

j) Decomposition temperature: not available

k) pH: not applicable

l) Kinematic viscosity

at 40°C: not available at 100°C: not available

at 100°C: not avai

m) Solubility

Solubility in water: practically insoluble

Solubility in other solvents: not available

n) Partition coefficient n-octanol/water (log value): not available

o) Vapour pressure at 25°C: ≤0.00001 kPa

p) Density and/or relative density: appr. 1.3 g/mL
 q) Relative vapour density: not available

9.2. Other information

r)

not available

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

Particle characteristics:

10.1. Reactivity Reactions with alcohols, amines, aqueous acids and

alkalis. Reacts with water to form carbon dioxide.

10.2. Chemical stability No decomposition if stored and handled properly.

10.3. Possibility of hazardous reactions It reacts violently with amines and alcohols.

It reacts with water forming carbon dioxide.

As a result of heat, pressure may increase. (risk of

not available

explosion).

10.4. Conditions to avoid Moisture, direct sunlight, frost, heat, ignition sources.

10.5. Incompatible materials Amines, alcohols, water.

10.6. Hazardous decomposition products No dangerous decomposition products are formed under

normal conditions. Hazardous combustion products: See

Section 5.





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## **SECTION 11:** Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation. Respiratory or skin sensitisation: May cause an allergic skin reaction.

May cause allergy or asthma symptoms of breathing

difficulties if inhaled.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Suspected of damaging fertility.
STOT-single exposure: May cause respiratory irritation.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated

exposure through prolonged or repeated exposure.

Aspiration hazard: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties: no data.

## **SECTION 12:** Ecological information

12.1. Toxicity No data for the product.

Components:

*Isocyanic acid, polymethylenepolyphenylene ester (CAS: 9016-87-9):* 

Fish (Danio rerio):  $LC_{50}$  > 1000 mg/L 96 h Daphnia (Daphnia magna):  $EC_{50}$  > 1000 mg/L 24 h Bacterium:  $EC_{50}$  > 100 mg/L 3 h

12.2. Persistence and degradability It reacts with water to form carbon dioxide at the

interface and forms an insoluble reaction product (polyurea) with a high melting point. Polyurea does

not decompose.

12.3. Bioaccumulative potential No data available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment No data available.

12.6. Endocrine disrupting properties No data available.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC



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12.7. Other adverse effects Do not discharge into surface water, groundwater or

sewers.

Water hazard class (German): WGK 1 (self-classification)

## **SECTION 13:** Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 08 05 01\*

Waste isocyanates.

Waste Identification Code: 08 04 10

Waste adhesives and sealants other than those mentioned in 08 04 09.

Disposal must be in compliance with national and local regulations.

## Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Waste Identification Code: 15 01 02

Plastic packaging.

Disposal must be in compliance with national and local regulations.

#### Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

## **SECTION 14:** Transport information

Land transport:

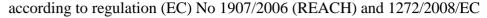
Road/ Railway ADR/RID: Not classified.

14.1. UN number or ID number: Not classified.

14.2. UN proper shipping name: Not classified.

14.3. Transport hazard class(es): Not classified.

14.4. Packing group: Not classified.





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14.5. Environmental hazards: Not classified.

14.6. Special precautions for user: Not classified.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not apply to the product.

Air transport: ICAO / IATA: Not apply to the product.

## **SECTION 15:** Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.

Seveso category: not classified.

Restriction of REACH XVII. According to the attachment: entry 3., (20, 40,) 74., 75.

The product contains SVHC substance: Melamine (CAS: 108-78-1)

15.2. Chemical safety assessment.

not available

#### **SECTION 16:** Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

Skin Irrit. 2 H315 calculation method



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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Skin Sens. 1.	H317	calculation method
Eye Irrit. 2	H319	calculation method
Resp. Sens. 1	H334	calculation method
STOT SE 3	H335	calculation method
Carc. 2	H351	calculation method
Repr. 2	H361f	calculation method
STOT RE 2	H373	calculation method
The full text of ea		- phrase and Hazard classes and cat. in Section 3.: Swallowed.
v	Harmful if	
H302	Harmful if Causes ski	Swallowed.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms of breathing difficulties if inhaled.

H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure

through prolonged or repeated exposure.

Acute Tox. 4 Acute toxicity Category 4

Skin Irrit. 2
 Skin corrosion/irritation Category 2
 Skin Sens. 1.
 Respiratory/skin sensitization Category 1
 Eye Irrit. 2
 Serious eye damage/eye irritation Category 2

Acute Tox. 4 Acute toxicity Category 4

Resp. Sens. 1 Respiratory sensitization Category 1

STOT SE 3 Specific target organ toxicity — single exposure Category 3

Carc. 2 Carcinogenicity Category 2 Repr. 2 Reproductive toxicity Category 2

STOT RE 2 Specific target organ toxicity – repeated exposure Category 2

#### Legend:

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road



according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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ATE Acute Toxicity Estimate **BCF** Bioconcentration Factor **BOD** Biological Oxygen Demand

Bw **Body Weight** 

Classification and Labelling C&L Chemical Abstracts Service CAS

Classification, Labelling and Packaging CLP

Carcinogenic, Mutagenic or toxic to Reproduction **CMR** 

Chemical Oxygen Demand COD Chemical Safety Assessment **CSA** Chemical Safety Report **CSR** Derived Minimal Effect Level **DMEL** Derived No Effect Level **DNEL ECHA** European Chemicals Agency Ecx Effective Concentration x%

ErC50 EC50 in terms of reduction of growth rate

Effective Dose x% Edx EC **European Community** 

EC number European Community number

European List of Notified Chemical Substances FS Exposure Scenario

**ELINCS** 

**IARC** International Agency for Research on Cancer International Air Transport Association **IATA** International Maritime Dangerous Goods **IMDG** 

Lethal Concentration x% LCx

LDx Lethal Dose x%

Lowest Observed Adverse Effect Concentration **LOAEC** 

**LOAEL** Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level **NOEC** No observed effect concentration

No observed effect level **NOEL** No-Longer Polymer **NLP** 

No Observed Adverse Effect Level **NOAEL** 

Organisation for Economic Cooperation and Development **OECD** 

Persistent Bioaccumulative and Toxic **PBT** Predicted No-Effect Concentration **PNEC** 

parts/million ppm

Registration, Evaluation, Authorisation and Restriction of Chemicals REACH

Regulations concerning the International carriage of Dangerous Goods by Rail RID

**SVHC** Substance of Very High Concern

substance of unknown or variable composition, complex reaction products or biological **UVCB** 

materials

VOC Volatile organic compounds

Very Persistent and very Bio-accumulative vPvB





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Revision Indicators:					
Section	Subject of change	Date	Version		
1-16.	Full revision due to composition change. Other corrections	08. 07. 2024	2		
2.2., 14.	Changes in legislation				