

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

#### X-IN-1 MULTI FOAM CLEANER

Revision date: 3/8/2023 Version: 1.3 Replaces version: 1.2 Language: en-GB Date of print: 3/8/2023

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

#### 1.1 Product identifier

Trade name: X-IN-1 MULTI FOAM CLEANER

This safety data sheet pertains to the following products:

408468 = X-IN-1 MULTI FOAM CLEANER

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

General use: Cleaning agent.

For commercial user only.

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

Company name: Berner Produkten b.v. Street/POB-No.: Vogelzankweg 175
Postal Code, city: 6374 AC Landgraaf

Netherlands

 www.berner.nl

 E-mail:
 info@berner.nl

 Telephone:
 +31 45 53 39 133

Department responsible for information:

E-mail: Productsafety.Chemicals@berner-group.com

#### 1.4 Emergency telephone number

Poisons information service:

National Poisons Information Service (Birmingham Unit): 844 892 0111

Transport:

CONSULTANK Lutz Harder GmbH (Contract Qualisys/Berner) Telephone: +49 (178) 4337434 (from USA: 01149 178 4337434)

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

#### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2; H319 Causes serious eye irritation.

#### 2.2 Label elements

#### Labelling (CLP)





Signal word: Danger

Hazard statements: H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.



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Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

P280 Wear protective gloves/protective clothing/eye 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.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

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

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: Blend of active ingredients with propellant.

Hazardous ingredients:

Identifiers	Designation Classification	Content	
REACH 01-2119457558-25-xxxx EC No. 200-661-7 CAS 67-63-0	Isopropyl alcohol Flam. Liq. 2; H225. Eye Irrit. 2; H319. STOT SE 3; H336.	< 10 %	
EC No. 203-905-0 CAS 111-76-2	2-butoxyethanol Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 3; H331. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Acute toxicity estimate (ATE): Oral: 1200 mg/kg bw. Inhalative, vapours: 3 mg/L.	< 10 %	
EC No. 215-647-6 CAS 1336-21-6	Ammonia solution Skin Corr. 1B; H314. STOT SE 3; H335. Aquatic Acute 1; H400. Specific concentration limits (SCL): STOT SE 3; H335: $C \ge 5 \%$	< 1 %	
EC No. 203-815-1 CAS 110-91-8	Morpholine Flam. Liq. 3; H226. Acute Tox. 4; H302. Acute Tox. 3; H311. Acute Tox. 3; H331. Skin Corr. 1B; H314.	< 1 %	
REACH 01-2119486944-21-xxxx Propane EC No. 200-827-9 Flam. Gas 1; H220. Press. Gas (Comp.); H280. CAS 74-98-6		< 10 %	
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	P-xxxx Butane, <0,1% Butadiene Flam. Gas 1; H220. Press. Gas (Comp.); H280.		
REACH 01-2119485395-27-xxxx EC No. 200-857-2 CAS 75-28-5	1 Iaiii. Gas 1, 11220. 1 1633. Gas (Collip.), 11200.		

Full text of H- and EUH-statements: see section 16.



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Additional information:

Labelling for contents according to regulation (EC) No 648/2004, annex VII: Contains:

- 5% or over but less than 15%: aliphatic hydrocarbons
- less than 5%: anionic surfactants, perfumes.

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

### 4.1 Description of first aid measures

General information: IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to

self-protection! If medical advice is needed, have product container or label at hand.

Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions,

consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation

consult an ophthalmologist.

After swallowing: Rinse mouth and seek medical attention immediately. Never give anything by mouth to an

unconscious person. Do not induce vomiting. Seek medical attention.

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

Causes serious eye irritation.

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

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, Extinguishing powder, alcohol resistant foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

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

Extremely flammable aerosol. Pressurised container: May burst if heated.

## 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information: Hazchem-Code: -

Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray

to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of

explosion.

Do not allow fire water to penetrate into surface or ground water.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with

the regulations of the local authorities.



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

## 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours and spray. Avoid contact with the substance.

In case of leakage, eliminate all ignition sources. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

#### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion! In case of release, notify competent authorities.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Thoroughly clean surrounding area. Do not remove residual product with water and detergent. In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

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

#### 7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours and spray.

Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

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

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

No information available.



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

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value	
67-63-0	Isopropyl alcohol	Great Britain: WEL-STEL Great Britain: WEL-TWA	1250 mg/m³; 500 ppm 999 mg/m³; 400 ppm	
111-76-2	2-butoxyethanol	Great Britain: WEL-STEL	246 mg/m³; 50 ppm (may be absorbed through the skin)	
		Great Britain: WEL-TWA	123 mg/m³; 25 ppm (may be absorbed through the skin)	
1336-21-6	Ammonia solution	Great Britain: WEL-STEL Great Britain: WEL-TWA	25 mg/m³; 35 ppm 18 mg/m³; 25 ppm	
110-91-8	Morpholine	Great Britain: WEL-STEL	72 mg/m³; 20 ppm (may be absorbed through the skin)	
		Great Britain: WEL-TWA	36 mg/m³; 10 ppm (may be absorbed through the skin)	
106-97-8	Butane, <0,1% Butadiene	Great Britain: WEL-STEL Great Britain: WEL-TWA	1810 mg/m³; 750 ppm 1450 mg/m³; 600 ppm	

#### Biological limit values:

CAS No.	Designation	Туре	Limit value	Parameter	Sampling
111-76-2	2-butoxyethanol	Great Britain: BMGV, urine	240 mmol/mol creatinine	Butoxyacetic acid	end of exposure or end of shift

DNEL/DMEL: Information about Isopropyl alcohol:

DNEL consumers, long-term, systemic, oral: 26 mg/kg bw/d DNEL consumers, long-term, systemic, dermal: 319 mg/kg bw/d DNEL workers, long-term, systemic, dermal: 888 mg/kg bw/d DNEL consumers, long-term, systemic, inhalative: 89 mg/m³ DNEL workers, long-term, systemic, inhalative: 500 mg/m³

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Personal protection equipment

## Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration

(gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration

is exceeded, self-contained breathing apparatus must be used.

Use filter type ABEK/P2 according to EN 14387.

Hand protection: Protective gloves according to BS EN 374.

Glove material: Nitrile rubber - Layer thickness: ≥ 0.5 mm. Breakthrough time (maximum wearing time): 480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to BS EN ISO 16321-1:2022.

Body protection: Flame retardant, antistatic and chemical resistant protective clothing.



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General protection and hygiene measures:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.

Do not breathe vapours and spray. Do not get in eyes, on skin, or on clothing.

When using do not eat or drink.

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place. When handling large quantities, supply emergency spray.

#### **Environmental exposure controls**

Odour

Odour threshold:

Refer to "6.2 Environmental precautions".

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

## 9.1 Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Form: Aerosol Colour: colourless Characteristic Not determined

pH: at 20 °C: 10

Melting point/freezing point: Not determined Initial boiling point and boiling range: -44.5 °C

Flash point/flash point range: -97 °C

Evaporation rate: Not applicable

Flammability: Extremely flammable aerosol.

Explosion limits: LEL (Lower Explosion Limit): 1.10 Vol-%

UEL (Upper Explosive Limit): 12.00 Vol-%

Vapour pressure: at 20 °C: 23 hPa Vapour density: Not determined Density: at 20 °C: 0.913 g/mL Water solubility: Slightly miscible Partition coefficient: n-octanol/water: Not determined Auto-ignition temperature: Not self-igniting Decomposition temperature: No data available Viscosity, dynamic: Not determined Viscosity, kinematic: Not determined

Explosive properties: Product is not explosive. Vapours can form explosive mixtures with air.

Oxidizing characteristics: No data available

#### 9.2 Other information

Ignition temperature:365 °CSolvent content:21.1 %Solid content:0.6 %Water content:78.1 %

## SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Extremely flammable aerosol

Vapours can form explosive mixtures with air.



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## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 10.5 Incompatible materials

No data available

#### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

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

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

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

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met

Skin sensitisation: Based on available data, the classification criteria are not met.

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

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

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

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

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

Other information:

Information about Isopropyl alcohol:

LD50, Rat, oral: 5,840 mg/kg

LD50, Rabbit, dermal: 13,900 mg/kg LC50, Rat, inhalative: > 25 mg/L/4h Information about 2-Butoxyethanol: LD50, Rabbit, oral: 300 mg/kg LD50, Rat, oral: 470 mg/kg

LD50, Rabbit, dermal: 2,000 mg/kg



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#### **Symptoms**

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Information about Isopropyl alcohol:

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 9,640 mg/L/96h

Daphnia toxicity:

LC50 Daphnia magna (Big water flea): 9,714 mg/L/24h

Algae toxicity:

LOEC: 1,000 mg/L/8d

Information about 2-Butoxyethanol:

Fish toxicity:

LC50 Lepomis macrochirus (bluegill): 1,490 mg/L

Further details: Product is not readily biodegradable.

#### 12.2 Persistence and degradability

Further details: The surfactants contained in this mixture comply with the biodegradability criteria as laid down

in Regulation (EC) No.648/2004 on detergents.

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

Not determined

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Waste key number: 16 05 04\* = Gases in pressure containers (including halons) containing hazardous

substances/Aerosol

\* = Evidence for disposal must be provided.

Recommendation: Do not pierce or burn, even after use.

Special waste. Dispose of waste according to applicable legislation.

Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation.

Empty carefully and completely, if possible. Handle empty containers with care. Incineration

may cause explosion.



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# **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR: UN 1950

#### 14.2 UN proper shipping name

ADR/RID, IMDG: UN 1950, AEROSOLS

IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

#### 14.3 Transport hazard class(es)

ADR/RID: Class 2, Code: 5F
IMDG: Class 2.1, Subrisk -

IATA-DGR: Class 2.1

#### 14.4 Packing group

ADR/RID, IATA-DGR: not applicable

MDG:

#### 14.5 Environmental hazards

Marine pollutant: no

## 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board: RID: Kemmler-number 23, UN number UN 1950

Hazard label: 2.1

Special Provisions: 190 327 344 625

Limited quantities: 1 L EQ: E0

Package - Instructions: P207 LP200
Package - Special Provisions: PP87 RR6 L2

Special provisions for packing together: MP9
Tunnel restriction code: D

#### Sea transport (IMDG)

EmS: F-D, S-U

Special Provisions: 63 190 277 327 344 381 959

Limited quantities: 1000 mL Excepted quantities: E0

Package - Instructions: P207, LP200
Package - Provisions: PP87, L2

IBC - Instructions:

IBC - Provisions:

Tank instructions - IMO:

Tank instructions - UN:

Tank instructions - Provisions:

Stowage and handling: SW1 SW22 Segregation: SG69

Properties and observations:

Segregation group: none

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#### Air transport (IATA)

Hazard label: Flamm. gas

Excepted Quantity Code:

Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg

Special Provisions: A145 A167 A802

Emergency Response Guide-Code (ERG): 10L

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

No data available

# **SECTION 15: Regulatory information**

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

#### National regulations - Great Britain

Hazchem-Code:

No data available

#### National regulations - EC member states

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

[Seveso-III-Directive]

Physical hazards: Code P3a, Quantity threshold 150 000 kg / 500 000 kg

Use restriction according to REACH annex XVII, no.: 3, 40, 75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

[Seveso-III-Directive]: P3a

## 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## **SECTION 16: Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

H220 = Extremely flammable gas.

H222 = Extremely flammable aerosol.

H225 = Highly flammable liquid and vapour.

H226 = Flammable liquid and vapour.

H229 = Pressurised container: May burst if heated.

H280 = Contains gas under pressure; may explode if heated.

H302 = Harmful if swallowed.

H311 = Toxic in contact with skin.

H312 = Harmful in contact with skin.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H331 = Toxic if inhaled.

H335 = May cause respiratory irritation.

H336 = May cause drowsiness or dizziness.

H400 = Very toxic to aquatic life.



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Abbreviations and acronyms: Acute Tox.: Acute toxicity

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

Aerosol: Aerosol

Aquatic Acute: Hazardous to the aquatic environment - acute AS/NZS: Australian Standards/New Zealand Standards

Bw: Body weight

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging DMEL: Derived minimal effect level

DMEL: Derived minimal effect DNEL: Derived no-effect level EC: European Community EN: European Standard EQ: Excepted quantities EU: European Union Eye Irrit.: Eye irritation

Flam. Gas: Flammable gases Flam. Liq.: Flammable liquid

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration LD50: Lethal dose 50% LEL: Lower Explosion Limit

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OEL: Occupational Exposure Limit Value

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration Press. Gas: Gases under pressure

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

Skin Corr.: Skin corrosion Skin Irrit.: Skin irritation

STOT SE: Specific target organ toxicity - single exposure

TLV: Threshold Limit Value

TRGS: Technical Rules for Hazardous Substances

UN: United Nations

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Reason of change: Changes in section 3: Composition/information on ingredients (CAS 111-76-2)

Date of first version: 3/8/2021

#### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.