

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Version number: GHS 5.0  
Replaces version of: 2021-03-30 (GHS 4)

Revision: 2021-03-30

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

### 1.1 Product identifier

**Trade name** PROMAT CHEMICALS STARTHILFESPRAY - 400 ml  
**Unique formula identifier (UFI)** 12A0-D0K1-N00P-7VX1

**Article number** 4000 354570

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

**Relevant identified uses** General use

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

NORDWEST Handel AG  
Robert-Schuman-Straße 17  
44263 Dortmund  
Germany

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**e-mail (competent person)** [sdb@nordwest.com](mailto:sdb@nordwest.com)

### 1.4 Emergency telephone number

#### Poison centre

| Country     | Name                                                                                               | Postal code/city | Telephone                       |
|-------------|----------------------------------------------------------------------------------------------------|------------------|---------------------------------|
| Austria     | Vergiftungsinformationszentrale der Gesundheit                                                     |                  | +43 1 406 43 43                 |
| Germany     | Beratungsstelle bei Vergiftungen<br>Giftinformationszentrale der Länder Rheinland-Pfalz und Hessen | 55131 Mainz      | +49(0)6131 / 19240              |
| Switzerland | Tox Info Suisse                                                                                    |                  | +145, 24h oder +41 44 251 51 51 |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class                                                                    | Category | Hazard class and category | Hazard statement |
|---------|---------------------------------------------------------------------------------|----------|---------------------------|------------------|
| 2.3     | aerosols                                                                        | 1        | Aerosol 1                 | H222,H229        |
| 3.2     | skin corrosion/irritation                                                       | 2        | Skin Irrit. 2             | H315             |
| 3.8D    | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3        | STOT SE 3                 | H336             |
| 4.1C    | hazardous to the aquatic environment - chronic hazard                           | 3        | Aquatic Chronic 3         | H412             |

For full text of abbreviations: see SECTION 16.

#### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word** danger

#### Pictograms

GHS02, GHS07



#### Hazard statements

H222  
H229  
H315  
H336  
H412  
Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
Harmful to aquatic life with long lasting effects.

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## Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
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.  
P251 Do not pierce or burn, even after use.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental hazard information

EUH019 May form explosive peroxides.

**Hazardous ingredients for labelling** Naphtha (petroleum), hydrotreated light, diethyl ether

## 2.3 Other hazards

of no significance

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

| Identifier                                                                                                                | Name of substance                            | Wt%       | Classification acc. to GHS                                                                                        | Pictograms                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS No<br>74-98-6<br><br>EC No<br>200-827-9<br><br>Index No<br>601-003-00-5<br><br>REACH Reg. No<br>01-2119486944-21      | propane                                      | 25 – < 50 | Flam. Gas 1 / H220<br>Press. Gas L / H280                                                                         |                                                                                                                                                                                 |
| CAS No<br>106-97-8<br><br>EC No<br>203-448-7<br><br>Index No<br>601-004-00-0<br><br>REACH Reg. No<br>01-2119474691-32     | butane                                       | 25 – < 50 | Flam. Gas 1 / H220<br>Press. Gas L / H280                                                                         |                                                                                                                                                                               |
| CAS No<br>64742-49-0<br><br>EC No<br>921-024-6<br><br>REACH Reg. No<br>01-2119475514-35                                   | Naphtha (petroleum), hydro-<br>treated light | 10 – < 25 | Flam. Liq. 2 / H225<br>Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Aquatic Chronic 2 / H411 |     |
| CAS No<br>60-29-7<br><br>EC No<br>200-467-2<br><br>Index No<br>603-022-00-4<br><br>REACH Reg. No<br>01-2119535785-29-xxxx | diethyl ether                                | 5 – < 10  | Flam. Liq. 1 / H224<br>Acute Tox. 4 / H302<br>STOT SE 3 / H336                                                    |                                                                                                                                                                               |
| CAS No<br>75-28-5<br><br>EC No<br>200-857-2<br><br>Index No<br>601-004-00-0<br><br>REACH Reg. No<br>01-2119485395-27      | isobutane                                    | 1 – < 5   | Flam. Gas 1 / H220<br>Press. Gas L / H280                                                                         |                                                                                                                                                                               |

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| Name of substance | Specific Conc. Limits | M-Factors | ATE       | Exposure route |
|-------------------|-----------------------|-----------|-----------|----------------|
| diethyl ether     | -                     | -         | 500 mg/kg | oral           |

For full text of abbreviations: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Narcotic effects.

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, BC-powder

#### Unsuitable extinguishing media

Water jet

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

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

#### Advice on how to contain a spill

Covering of drains

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

#### Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

#### Packaging compatibilities

Keep only in original container.

#### Storage class (LGK) TRGS 510

LGK 2 B (aerosol dispensers and lighters)

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) |               |          |            |           |                          |            |                           |                 |                                |          |            |
|----------------------------------------------------------------|---------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------|
| Country                                                        | Name of agent | CAS No   | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source     |
| DE                                                             | butane        | 106-97-8 | AGW        | 1,000     | 2,400                    | 4,000      | 9,600                     |                 |                                |          | TRGS 900   |
| DE                                                             | diethyl ether | 60-29-7  | AGW        | 400       | 1,200                    | 400        | 1,200                     |                 |                                |          | TRGS 900   |
| DE                                                             | diethyl ether | 60-29-7  | MAK        | 400       | 1,200                    | 400        | 1,200                     |                 |                                |          | DFG        |
| DE                                                             | propane       | 74-98-6  | AGW        | 1,000     | 1,800                    | 4,000      | 7,200                     |                 |                                |          | TRGS 900   |
| DE                                                             | isobutane     | 75-28-5  | AGW        | 1,000     | 2,400                    | 4,000      | 9,600                     |                 |                                |          | TRGS 900   |
| EU                                                             | diethyl ether | 60-29-7  | IOELV      | 100       | 308                      | 200        | 616                       |                 |                                |          | 2000/39/EC |

#### Notation

Ceiling-C  
STEL

ceiling value is a limit value above which exposure should not occur  
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

| Relevant DNELs of components of the mixture |            |          |                         |                                    |                   |                            |
|---------------------------------------------|------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No     | Endpoint | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
| Naphtha (petroleum), hydrotreated light     | 64742-49-0 | DNEL     | 5,306 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Naphtha (petroleum), hydrotreated light     | 64742-49-0 | DNEL     | 13,964 mg/kg bw/day     | human, dermal                      | worker (industry) | chronic - systemic effects |
| diethyl ether                               | 60-29-7    | DNEL     | 308 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| diethyl ether                               | 60-29-7    | DNEL     | 616 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| diethyl ether                               | 60-29-7    | DNEL     | 44 mg/kg bw/day         | human, dermal                      | worker (industry) | chronic - systemic effects |

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| Relevant PNECs of components of the mixture |         |          |                 |                       |                              |                              |
|---------------------------------------------|---------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No  | Endpoint | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| diethyl ether                               | 60-29-7 | PNEC     | 2 mg/l          | aquatic organisms     | freshwater                   | short-term (single instance) |
| diethyl ether                               | 60-29-7 | PNEC     | 0.2 mg/l        | aquatic organisms     | marine water                 | short-term (single instance) |
| diethyl ether                               | 60-29-7 | PNEC     | 1.65 mg/l       | aquatic organisms     | water                        | intermittent release         |
| diethyl ether                               | 60-29-7 | PNEC     | 4.2 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| diethyl ether                               | 60-29-7 | PNEC     | 9.14 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| diethyl ether                               | 60-29-7 | PNEC     | 0.914 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| diethyl ether                               | 60-29-7 | PNEC     | 0.66 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)



Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

### Eye/face protection

Use protective eyewear to guard against splash of liquids.

### Skin protection

#### Hand protection

Wear protective gloves. (Splash protection)

#### Type of material

NR: natural rubber, latex, FKM: fluoro-elastomer

#### Breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Full face mask/half mask/quarter mask (EN 136/140).

Type: AX-P2 (gas filters and combined filters against low-boiling point organic compounds and particles, colour code: Brown/White).

### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                          |                                                   |
|----------------------------------------------------------|---------------------------------------------------|
| Physical state                                           | aerosol (spray aerosol)                           |
| Colour                                                   | colourless                                        |
| Melting point/freezing point                             | not determined                                    |
| Boiling point or initial boiling point and boiling range | not applicable (aerosol)                          |
| Flammability                                             | flammable aerosol in accordance with GHS criteria |
| Lower and upper explosion limit                          | 1 vol% - 15 vol%                                  |
| Flash point                                              | not applicable (aerosol)                          |
| Decomposition temperature                                | not relevant                                      |
| pH (value)                                               | not applicable (aerosol)                          |

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|                                        |                                |
|----------------------------------------|--------------------------------|
| <b>Kinematic viscosity</b>             | not relevant                   |
| <b>Solubility(ies)</b>                 | not determined                 |
| Vapour pressure                        | 4,200 hPa at 20 °C             |
| <b>Density and/or relative density</b> |                                |
| Density                                | 0.6129 g/ml (calculated value) |
|                                        | no data available              |

## 9.2 Other information

**Information with regard to physical hazard classes** there is no additional information

### Other safety characteristics

Temperature class (EU, acc. to ATEX) T4 (maximum permissible surface temperature on the equipment: 135°C)  
Odour like ether

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

### Hints to prevent fire or explosion

Protect from sunlight.

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed or if inhaled.

#### Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No  | Exposure route | ATE       |
|-------------------|---------|----------------|-----------|
| diethyl ether     | 60-29-7 | oral           | 500 mg/kg |

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

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## Reproductive toxicity

Shall not be classified as a reproductive toxicant.

## Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Acc. to 1272/2008/EC: Harmful to aquatic life with long lasting effects.  
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

| Aquatic toxicity (chronic) of components of the mixture |         |          |           |                       |               |
|---------------------------------------------------------|---------|----------|-----------|-----------------------|---------------|
| Name of substance                                       | CAS No  | Endpoint | Value     | Species               | Exposure time |
| diethyl ether                                           | 60-29-7 | EC50     | >100 mg/l | aquatic invertebrates | 21 d          |

### 12.2 Persistence and degradability

| Degradability of components of the mixture |            |                  |                  |      |        |        |
|--------------------------------------------|------------|------------------|------------------|------|--------|--------|
| Name of substance                          | CAS No     | Process          | Degradation rate | Time | Method | Source |
| Naphtha (petroleum), hydro-treated light   | 64742-49-0 | oxygen depletion | 83 %             | 10 d |        | ECHA   |

### 12.3 Bioaccumulative potential

Data are not available.

| Bioaccumulative potential of components of the mixture |            |       |                           |          |
|--------------------------------------------------------|------------|-------|---------------------------|----------|
| Name of substance                                      | CAS No     | BCF   | Log KOW                   | BOD5/COD |
| butane                                                 | 106-97-8   |       | 1.09 (pH value: 7, 20 °C) |          |
| propane                                                | 74-98-6    |       | 1.09 (pH value: 7, 20 °C) |          |
| Naphtha (petroleum), hydrotreated light                | 64742-49-0 | 501.2 | 3.6 (pH value: 7, 20 °C)  |          |
| isobutane                                              | 75-28-5    |       | 1.09 (pH value: 7, 20 °C) |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagegings

It is a dangerous waste; only packagegings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Relevant provisions relating to waste

##### List of wastes, (Recommendations)

##### Product

07 07 04\* Other organic solvents, washing liquids and mother liquors

##### Product residues

16 05 04\* Gases in pressure containers (including halons) containing hazardous substances

07 07 04\* Other organic solvents, washing liquids and mother liquors

##### Packagegings

15 01 04 Metallic packaging

##### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID/ADN UN 1950

IMDG-Code UN 1950

ICAO-TI UN 1950

### 14.2 UN proper shipping name

ADR/RID/ADN AEROSOLS

IMDG-Code AEROSOLS

ICAO-TI Aerosols, flammable

### 14.3 Transport hazard class(es)

ADR/RID/ADN 2 (2.1)

IMDG-Code 2.1

ICAO-TI 2.1

### 14.4 Packing group

not assigned

### 14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

#### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

Classification code 5F

Danger label(s) 2.1



Special provisions (SP) 190, 327, 344, 625

Excepted quantities (EQ) E0

Limited quantities (LQ) 1 L

Transport category (TC) 2

Tunnel restriction code (TRC) D

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## International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant -  
Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
EmS F-D, S-U  
Stowage category -

## International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 2.1



Special provisions (SP) A145, A167  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 30 kg

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

##### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

##### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

none of the ingredients are listed

##### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

##### Water Framework Directive (WFD)

none of the ingredients are listed

##### Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

none of the ingredients are listed

##### National regulations (Germany)

##### Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK (water hazard class) 2 obviously hazardous to water

##### Technical instructions on air quality control (Germany)

| Number | Group of substances | Class | Conc.    | Mass flow | Mass concentration   | Notation |
|--------|---------------------|-------|----------|-----------|----------------------|----------|
| 5.2.5  | organic substances  |       | ≥ 25 wt% | 0.5 kg/h  | 50 mg/m <sup>3</sup> | 3)       |

##### Notation

3) a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

##### National inventories

| Country | Inventory  | Status                     |
|---------|------------|----------------------------|
| EU      | REACH Reg. | all ingredients are listed |

##### Legend

REACH Reg. REACH registered substances

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)                      | Actual entry (text/value)                                | Safety-relevant |
|---------|------------------------------------------------|----------------------------------------------------------|-----------------|
| 1.1     | Trade name:<br>D24289 STARTHILFESPRAY - 400 ml | Trade name:<br>PROMAT CHEMICALS STARTHILFESPRAY - 400 ml | yes             |
| 1.1     |                                                | Unique formula identifier (UFI):<br>12A0-D0K1-N00P-7VX1  | yes             |

### Abbreviations and acronyms

| Abbr.            | Descriptions of used abbreviations.                                                                                                                                                                                    |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2000/39/EC.      | Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC.                                                                       |
| Acute Tox.       | Acute toxicity.                                                                                                                                                                                                        |
| ADN.             | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). |
| ADR.             | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road).                                       |
| ADR/RID/ADN.     | European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).                                                                                              |
| AGW.             | Workplace exposure limit.                                                                                                                                                                                              |
| Aquatic Chronic. | Hazardous to the aquatic environment - chronic hazard.                                                                                                                                                                 |
| Asp. Tox.        | Aspiration hazard.                                                                                                                                                                                                     |
| ATE.             | Acute Toxicity Estimate.                                                                                                                                                                                               |
| BCE.             | Bioconcentration factor.                                                                                                                                                                                               |
| BOD.             | Biochemical Oxygen Demand.                                                                                                                                                                                             |
| CAS.             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).                                                                                                                |
| Ceiling-C.       | Ceiling value.                                                                                                                                                                                                         |
| CLP.             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.                                                                                                                    |
| COD.             | Chemical oxygen demand.                                                                                                                                                                                                |
| DFG.             | Deutsche Forschungsgemeinschaft MAK-und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Wiley-VCH, Weinheim.                                                                       |
| DGR.             | Dangerous Goods Regulations (see IATA/DGR).                                                                                                                                                                            |
| DNEL.            | Derived No-Effect Level.                                                                                                                                                                                               |
| EC50.            | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.                                      |
| EC No.           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).                                     |
| EINECS.          | European Inventory of Existing Commercial Chemical Substances.                                                                                                                                                         |
| ELINCS.          | European List of Notified Chemical Substances.                                                                                                                                                                         |
| EmS.             | Emergency Schedule.                                                                                                                                                                                                    |
| Flam. Gas.       | Flammable gas.                                                                                                                                                                                                         |
| Flam. Liq.       | Flammable liquid.                                                                                                                                                                                                      |
| GHS.             | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.                                                                                                             |
| IATA.            | International Air Transport Association.                                                                                                                                                                               |
| IATA/DGR.        | Dangerous Goods Regulations (DGR) for the air transport (IATA).                                                                                                                                                        |
| ICAO.            | International Civil Aviation Organization.                                                                                                                                                                             |
| ICAO-TI.         | Technical instructions for the safe transport of dangerous goods by air.                                                                                                                                               |
| IMDG.            | International Maritime Dangerous Goods Code.                                                                                                                                                                           |
| IMDG-Code.       | International Maritime Dangerous Goods Code.                                                                                                                                                                           |
| Index No.        | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008.                                                                                              |
| IOELV.           | Indicative occupational exposure limit value.                                                                                                                                                                          |
| LGK.             | Lagerklasse (storage class according to TRGS 510, Germany).                                                                                                                                                            |
| Log KOW.         | n-Octanol/water.                                                                                                                                                                                                       |
| NLP.             | No-Longer Polymer.                                                                                                                                                                                                     |
| PBT.             | Persistent, Bioaccumulative and Toxic.                                                                                                                                                                                 |
| PNEC.            | Predicted No-Effect Concentration.                                                                                                                                                                                     |
| Ppm.             | Parts per million.                                                                                                                                                                                                     |
| Press. Gas.      | Gas under pressure.                                                                                                                                                                                                    |
| REACH.           | Registration, Evaluation, Authorisation and Restriction of Chemicals.                                                                                                                                                  |
| RID.             | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).                                               |
| Skin Corr.       | Corrosive to skin.                                                                                                                                                                                                     |
| Skin Irrit.      | Irritant to skin.                                                                                                                                                                                                      |
| STEL.            | Short-term exposure limit.                                                                                                                                                                                             |
| STOT SE.         | Specific target organ toxicity - single exposure.                                                                                                                                                                      |
| SVHC.            | Substance of Very High Concern.                                                                                                                                                                                        |
| TRGS.            | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).                                                                                                                                |
| TRGS 900.        | Arbeitsplatzgrenzwerte (TRGS 900).                                                                                                                                                                                     |
| TWA.             | Time-weighted average.                                                                                                                                                                                                 |
| VPvB.            | Very Persistent and very Bioaccumulative.                                                                                                                                                                              |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

|       |                                                     |
|-------|-----------------------------------------------------|
| H220. | Extremely flammable gas.                            |
| H222. | Extremely flammable aerosol.                        |
| H224. | Extremely flammable liquid and vapour.              |
| H225. | Highly flammable liquid and vapour.                 |
| H229. | Pressurised container: May burst if heated.         |
| H280. | Contains gas under pressure; may explode if heated. |
| H302. | Harmful if swallowed.                               |
| H304. | May be fatal if swallowed and enters airways.       |
| H315. | Causes skin irritation.                             |
| H336. | May cause drowsiness or dizziness.                  |
| H411. | Toxic to aquatic life with long lasting effects.    |
| H412. | Harmful to aquatic life with long lasting effects.  |

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



**4000 354570 - PROMAT CHEMICALS STARTHILFESPRAY - 400 ml**

Version number: GHS 5.0  
Replaces version of: 2021-03-30 (GHS 4)

Revision: 2021-03-30

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## Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.