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



Revision: 2023-07-12 Version number: GHS 5.0

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

Product identifier

PROMAT CHEMICALS KÄLTESPRAY - 400 ml Trade name

Unique formula identifier (UFI) PF60-40KC-S00W-FIFA

Article number 4000 354046

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

Relevant identified uses general use

Uses advised against do not use for products which come into contact with foodstuffs

1.3 Details of the supplier of the safety data sheet

> NORDWEST Handel AG Robert-Schuman-Straße 17

44263 Dortmund

Germany

Switzerland:

Telephone: +49 (0)231 2222-3001 Telefax: +49 (0)231 2222-3099 Website: www.nordwest.com

e-Mail (competent person): sdb@nordwest.com

1.4 **Emergency telephone number**

> Austria: Vergiftungsinformationszentrale der Gesundheit +43 1 406 43 43 Beratungsstelle bei Vergiftungen Giftinformation-+49(0)6131 / 19240 Germany:

szentrale der Länder Rheinland-Pfalz und Hessen

Tox Info Suisse +145, 24h oder +41 44 251 51 51

SECTION 2: Hazards identification

Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229

Remarks

For full text of H-phrases: see SECTION 16.

Label elements 2.2

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

Signal word danger

Pictograms

GHS02



H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

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

P102 Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. P211 P251

P271

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

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

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

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SECTION 3: Composition/information on ingredients

Description of the mixture

Hazardous ingredients	Hazardous ingredients acc. to EU regulation								
Name of substance	Identifier	Wt%	Classification acc. to 1272/ 2008/EC	Picto- grams	No te s	Specific Conc. Lim- its			
butane	CAS No 106-97-8 EC No 203-448-7	50 - < 75	Flam. Gas 1B / H221 Press. Gas C / H280		C GH S- HC U(b)				
Propan	CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21	25 - < 50	Flam. Gas 1A / H220 Press. Gas L / H280	*	GH S- HC U(c)				
isobutane	CAS No 75-28-5 EC No 200-857-2 REACH Reg. No 01-2119485395-27	1-<5	Flam. Gas 1A / H220 Press. Gas C / H280	(b)	C GH S- HC U(b)				

Notes

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.

In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of iso-

GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to

1272/2008/EC, Annex VI)

The allocation to the group 'compressed gas' is based on the physical state in which the gas is packaged U(c): The allocation to the group 'liquefied gas' is based on the physical state in which the gas is packaged

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

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. Provide fresh air.

Following skin contact

Wash with plenty of soap and water. Take off contaminated clothing.

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. In all cases of doubt, or when symptoms persist, seek medical advice.

Most important symptoms and effects, both acute and delayed 4.2

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

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 (CO2)

53 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

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.

Methods and material for containment and cleaning up 6.3

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Collect spillage (universal binder).

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.

SECTION 7: Handling and storage

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.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

Observe instructions for use. Keep out of reach of children.

· Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Nota- tion	Iden- tifier	TWA [ppm]	TWA [mg/ m³]	STEL [ppm]	STEL [mg/ m³]	Ceiling- C [ppm]	Ceiling- C [mg/ m³]	Source
DE	butane	106-97-8		AGW	1,000	2,400	4,000	9,600			TRGS 900
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

Notation

Ceiling-C 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) STEL

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)

8.2 **Exposure controls**

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)







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.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state aerosol (spray aerosol)

Colour colourless characteristic Odour

Other physical and chemical parameters

Melting point/freezing point -159.4 °C not applicable (aerosol)

Initial boiling point and boiling range not applicable (aerosol) Flash point not applicable (aerosol)

Flammability (solid, gas) flammable aerosol in accordance with GHS criteria

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Explosive limits

• lower explosion limit (LEL) 3 vol% • upper explosion limit (UEL) 15 vol%

Vapour pressure 4,200 hPa at 20 °C

Density 0.589 g/_{ml} (calculated value)

Solubility(ies) not determined

Partition coefficient

n-octanol/water (log KOW) This information is not available.

Auto-ignition temperature 287 °C

Viscosity not relevant (aerosol)

Explosive properties none Oxidising properties none

9.2 Other information There is no additional information.

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.

Physical stresses which might result in a hazardous situation and have to be avoided

high temperatures

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 toxicological effects

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.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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SECTION 12: Ecological information

12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment. Wassergefährdungsklasse, WGK (water hazard class) (WGK; Germany): nwg (non-hazardous to water)

Biodegradation

The relevant substances of the mixture are readily biodegradable.

12.2 Persistence and degradability

Data are not available.

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)	
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 Other adverse effects

Data are not available.

Endocrine disrupting potential

None of the ingredients are listed.

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/packagings

It is a dangerous waste; only packagings 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

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

15 01 10* packaging containing residues of or contaminated by hazardous substances

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	1950
14.2	UN proper shipping name	AEROSOLS
445	T ()	

14.3 Transport hazard class(es)

Class 2 (gases) (aerosol)
Subsidiary risk(s) 2.1 (flammability)

14.4 Packing group not assigned to a packing group

14.5 Environmental hazards none (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 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

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

UN number 1950 Proper shipping name **AEROSOLS**

Class 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

• International Maritime Dangerous Goods Code (IMDG)

Proper shipping name **AEROSOLS** Class 2.1 Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ) E0 Limited quantities (LQ) 1 I EmS F-D, S-U

Stowage category International Civil Aviation Organization (ICAO-IATA/DGR)

UN number 1950

Proper shipping name Aerosols, flammable

2.1 Class Danger label(s) 2.1



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

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Name acc. to inventory	CAS No	Restriction	No
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40
flammable / pyrophoric		R40	40

Legend

R40

- 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
- artificial snow and frost,

- 'whoopee' cushions, silly string aerosols, imitation excrement, horns for parties, decorative flakes and foams,
- artificial cobwebs,
- stink bombs.
- 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers re-

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

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Legend

ferred to above is marked visibly, legibly and indelibly with: 'For professional users only'.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).

4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

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

400 ml

none of the ingredients are listed

• Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol extremely flammable

Labelling keep out of reach of children pressurized container: may burst if heated keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking do not pierce or burn, even after use protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Net contents by volume

• 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

• Explosives precursors which are subject to restrictions

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) nwg (non-hazardous to water)

• Technical instructions on air quality control (Germany)

Number	Group of substances	Class	Conc.	Mass flow	Mass concentra- tion	Notation
5.2.5	organic substances		≥ 25 wt%	0.5 ^{kg} / _h	50 ^{mg} / _{m³}	3)

Notation

a total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m³, each of which to be indicated as total 3) carbon, shall not be exceeded (except organic particulate matter)

 Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany) Storage class (LGK): 2 B (aerosol dispensers and lighters)

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.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
3.2		Hazardous ingredients acc. to EU regulation: change in the listing (table)	yes
15.1		Restrictions according to REACH, Annex XVII: change in the listing (table)	yes
15.1	Water Framework Directive (WFD)	Water Framework Directive (WFD): none of the ingredients are listed	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relevant
15.1		Water Framework Directive (WFD): change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

Abbreviations and acronyms

ADN.

ADR.

AGW. AGW. BCF. BOD. CAS. Ceiling-C. CLP. CMR. COD. DGR. EC No.

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).

Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).

Workplace exposure limit.
Bioconcentration factor.
Biochemical Oxygen Demand.
Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).
Ceiling value.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
Carcinogenic, Mutagenic or toxic for Reproduction.
Chemical oxygen demand.
Dangerous Goods Regulations (see IATA/DGR).
The EC Inventory (EINECS, ELINECS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).
European List of Notified Chemical Substances.
Elemergency Schedule.
Flammable gas.

"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.
International Air Transport Association.
Dangerous Goods Regulations (DGR) for the air transport (IATA).
International Maritime Dangerous Goods Code.
Lagerklasse (storage class according to TRGS 510, Germany).

n-Octanol/Water.
International Maritime Dangerous Goods Code.
Lagerklasse (storage class according to TRGS 510, Germany).

n-Octanol/Water.
International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant").
No-Longer Polymer.
Persistent, Bioaccumulative and Toxic.
Parts per million.
Gas under pressure.
Registration, Evaluation, Authorisation and Restriction of Chemicals.
Regiement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the Interna

EINECS. ELINCS. EmS.

Flam. Gas

Flam. Gas. GHS. IATA. IATA/DGR. ICAO. IMDG. LGK. Log KOW. MARPOL.

MARPOL. NLP. PBT. Ppm. Press. Gas. REACH. RID.

STEL. SVHC. TRGS. TRGS 900. TWA. VPvB.

Key literature references and sources for data

Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU Regulation (EC) No. 1272/2008 (CLP, EU GHS)

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 section 2 and 3)

H220.

H221. H222. H229. H280.

Extremely flammable gas. Flammable gas. Extremely flammable aerosol. Pressurised container: May burst if heated. Contains gas under pressure; may explode if heated.

Disclaimer

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

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