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## Version number 13 (replaces version 12)

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

# · 1.1 Product identifier • Trade name: 4CR 5300 Hohlraumkonservierung Spray 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Color spray • 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: 4CR International GmbH & Co. KG Donnerstrasse 10b 22763 Hamburg Tel.: +49 (0) 40 69 60 99 30 E-Mail: Info@4CR.com www.4CR.com • 1.4 Emergency telephone number: +49(0)700 24112112 (CRM) **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 flame H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Aerosol 1 Skin Irrit. 2 H315 Causes skin irritation. STOT SE 3 H336 May cause drowsiness or dizziness. Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Hazard statements H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects. · Precautionary statements If medical advice is needed, have product container or label at hand. P101 P102 Keep out of reach of children.

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- *P103 Read carefully and follow all instructions.*
- *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.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

- 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.

## • Additional information:

*EUH208 Contains Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction. Buildup of explosive mixtures possible without sufficient ventilation.* 

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

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

· 3.2 Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components:		
EC number: 921-024-6 Reg.nr.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n- hexane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	≥10-<25%
EC number: 918-481-9 Reg.nr.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304, EUH066	10-25%
EC number: 927-241-2 Reg.nr.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 3, H412, EUH066	<i>≥10-&lt;25%</i>
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-21194869440-21	propane	10-25%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-31	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-25%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5-<10%
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy, benzene content < 0,1% Flam. Liq. 3, H226; Asp. Tox. 1, H304, EUH066	2.5-<10%
CAS: 61789-86-4 EINECS: 263-093-9 Reg.nr.: 01-2119488992-18	Sulfonic acids, petroleum, calcium salts $\bigcirc$ Skin Sens. 1B, H317 Specific concentration limit: Skin Sens. 1B; H317: $C \ge 10 \%$	≥0.1-<2.5
CAS: 68526-86-3 EINECS: 271-235-6	Alcohols, C11-14-iso-, C13-rich	<i>≥</i> 0.25-<19
• Additional information: For	the wording of the listed hazard phrases refer to section 16.	

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# **SECTION 4:** First aid measures

### • 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- *After eye contact: Rinse opened eye for several minutes under running water.*
- · After swallowing: Seek immediate medical advice.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
  6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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

### · 7.1 Precautions for safe handling

Keep away from heat and direct sunlight. Ensure good ventilation/exhaustion at the workplace.

- Information about fire and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

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- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.

· Storage class: 2 B

• 7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

## 106-97-8 butane, pure

WEL Short-term value: 1810 mg/m<sup>3</sup>, 750 ppm

Long-term value: 1450 mg/m<sup>3</sup>, 600 ppm

Carc (if more than 0.1% of buta-1.3-diene)

• Additional information: The lists valid during the making were used as basis.

### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

### · Hand protection

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves (EN 374)

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves* 

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Breakthrough time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• *Eye/face protection* Not required.

- •9.1 Information on basic physical and chemical properties
- General Information • Physical state

Aerosol

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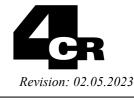
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Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	-44 °C
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	1.5 Vol %
Upper:	10.9 Vol %
Flash point:	<0 °C (DIN 53213)
Auto-ignition temperature:	365 °C (DIN 51794)
Decomposition temperature:	Not determined.
рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	8,300 hPa
Density and/or relative density	0,000 FR2 W
Density at 20 °C:	0.714 g/cm <sup>3</sup> (DIN 53217)
Relative density	Not determined.
Vapour density	Not determined.
Important information on protection of health an environment, and on safety.	d
Ignition temperature:	Product is not selfigniting. Product is not explosive. However, formation of
Explosive properties:	explosive air/vapour mixtures are possible.
Solvent content:	0.4.40.04
VOC (EC)	84.40 %
Solids content (weight-%):	15.6 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard classe	·····
Explosives	Void
Flammable gases	Void
Aerosols	Extremely flammable aerosol. Pressurised container
	May burst if heated.
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
	Void
PVrodnoric ilaulas	Void
Pyrophoric solids	
Pyrophoric solids Self-heating substances and mixtures	Void
<i>Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water</i>	
Pyrophoric solids Self-heating substances and mixtures	Void

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· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

# SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

 $\cdot$  10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: Carbon monoxide

# SECTION 11: Toxicological information

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

- · Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Causes skin irritation.
- · STOT-single exposure May cause drowsiness or dizziness.
- · Aspiration hazard May be fatal if swallowed and enters airways.

• 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

• 12.2 Persistence and degradability No further relevant information available.

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) : hazardous for water

Do not allow product to reach ground water, water course or sewage system.

- Danger to drinking water if even small quantities leak into the ground.
- Harmful to aquatic organisms

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# **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1950
14.2 UN proper shipping name	
ADR	UN1950 AEROSOLS
	AEROSOLS
IATA	AEROSOLS, flammable
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	2 5F Gases. 2.1
· IMDG, IATA	2.1
· Class	2.1 Gases.
· Label	2.1
· 14.4 Packing group · ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	Yes
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Gases.
EMS Number:	F-D,S-U
· Stowage Code	SW1 Protected from sources of heat.
	SW22 For AEROSOLS with a maximum capacity of
	litre: Category A. For AEROSOLS with a capacity abo
	1 litre: Category B. For WASTE AEROSOLS: Catego
· Segregation Code	C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of
Segreguion Conc	litre:
	Segregation as for class 9. Stow "separated from" class
	except for division 1.4.
	For AEROSOLS with a capacity above 1 litre:
	Segregation as for the appropriate subdivision of class For WASTE AEROSOLS:

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•	Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk account	rding to IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
· Transport category	2
• Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	IL
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

# **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· National regulations:

· Additional classification according to Decree on Hazardous Materials, Annex II:

Class Share in %

NK	50-100

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

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

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organisation	
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the	
International Carriage of Dangerous Goods by Road)	
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Gas 1A: Flammable gases – Category 1A	
Aerosol 1: Aerosols – Category 1	
Press. Gas (Comp.): Gases under pressure – Compressed gas	
Press. Gas (Liq.): Gases under pressure – Liquefied gas	
Flam. Liq. 2: Flammable liquids – Category 2	
Flam. Liq. 3: Flammable liquids – Category 3	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Skin Sens. 1B: Skin sensitisation – Category 1B	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
$\cdot$ * Data compared to the previous version altered.	
GB CONTRACTOR CONTRA	3—