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Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: Hana Compressed gas cleaner (Aerosol 400 ml (520)) Article number: xxx84417 UFI: DTXI-HOGN-HOGD-540G 1.3 Relevant identified uses of the substance or mixture and uses advised against Life cycle stages C Consumer use PW Widespread use by professional workers Sector of Use SQ11 Consumer use PW Widespread use by professional workers Sector of Use SQ12 Consumer use: Private households / general public / consumers SQ12 Consumer use: Private households / general public / consumers SQ12 Consumer use: Private households / general public / consumers SQ12 Consumer use: Private households / general public / consumers SQ12 Consumer use: Private households / general public / consumers SQ12 Consumer use: Private households / general public / consumers SQ12 Consumer use: Private households / general public / consumers According to trade name/product specification 1.3 Details of the substance / the mixture Comparison: Quilty Assurace Q8 InfoSDB@nhamad Q9 100.2-0400 (Hama) 14 Ensergency telephone number: +49 809 150.2-0400 (Hama) 2.1 Classification of the substance or mixture Classification of the substance or mixture		any/undertaking
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Printing date 30.03.2020

according to 1907/2006/EC, Article 31 Version number 5

Safety data sheet

Revision: 27.03.2020

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

[•] 2.3 Other hazards

• Results of PBT and vPvB assessment

• *PBT*: Not applicable.

• *vPvB*: Not applicable.

SECTION 3: Composition/information on ingredients

[•] 3.2 Chemical characterisation: Mixtures

• Description: Mixture: consisting of the following components.

Dangerous components:				
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%	
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<25%	
Additional information: For the wording of the listed hazard phrases refer to section 16.				

SECTION 4: First aid measures

[•] 4.1 Description of first aid measures

- General information: Take affected persons out into the fresh air.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- * After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- * After swallowing: Not applicable, as aerosol.
- ⁴.2 Most important symptoms and effects, both acute and delayed
- Danger of icing / freezing in case of eye / skin contact with the liquid gas.
- 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:

Use fire extinguishing methods suitable to surrounding conditions. Fire-extinguishing powder

ABC powder

- For safety reasons unsuitable extinguishing agents:
- Foam

Water Gaseous extinguishing agents

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Carbon monoxide (CO)

Danger of receptacles bursting because of high vapour pressure when heated. Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases. Wear self-contained respiratory protective device. Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 3)

(Contd. of page 1)



Printing date 30.03.2020

Version number 5

Revision: 27.03.2020

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

(Contd. of page 2)

· Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: No special measures required.
- **6.3** *Methods and material for containment and cleaning up:* Ensure adequate ventilation. Allow to evaporate.
- 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

Use only in accordance with intended purpose.

Do not shake.

Use only in upstanding position - Liquid gas may escape and may cause freeze / material damage.

Use only in well ventilated areas.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

See section 15.

See Section 8 for information on personal protection equipment.

[•] Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Fumes can combine with air to form an explosive mixture.

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

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:

Storage and clustering must be made according to official regulations. Store only in the original receptacle. Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Storage and clustering must be made according to official regulations. Due to regional regulations, follow VCI guidance on clustering of chemicals. See section 10.

- Further information about storage conditions:
- Store receptacle in a well ventilated area.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

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



• Additional information about design of technical facilities: No further data; see item 7.

(Contd. on page 4)

EU



Printing date 30.03.2020

Safety data sheet according to 1907/2006/EC, Article 31 Version number 5

Revision: 27.03.2020

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

(Contd. of page 3)

8.1 Control parameters	
	<i>require monitoring at the workplace:</i> nt quantities of materials with critical values that have to be monitored at the
Additional information: The lists va	lid during the making were used as basis.
8.2 Exposure controls	
Personal protective equipment:	
General protective and hygienic m	
	nded usage (usage/tradename - point 1 MSDS).
The usual precautionary measures are to be Do not inhale gases / fumes / aerosols.	e adhered to when handling chemicals.
Avoid contact with the eyes and skin.	
Keep away from foodstuffs, beverages and Wash hands before breaks and at the end o	
Respiratory protection:	
No special precautions are necessary if use	d correctly.
Not necessary if room is well-ventilated.	
<i>Protection of hands:</i> Not required. <i>Material of gloves</i> Not required.	
Penetration time of glove material	I Not required
<i>Eye protection:</i> No special precautions	
	· · ·
SECTION 9: Physical and cher 9.1 Information on basic physical	
$\mathcal{I}_{\mathcal{I}}$	
General Information	
General Information Appearance: Form:	Aerosol
General Information Appearance: Form: Colour:	Aerosol Colourless
General Information Appearance: Form:	Aerosol
General Information Appearance: Form: Colour: Odour: Change in condition	Aerosol Colourless Specific type
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point:	Aerosol Colourless Specific type Undetermined.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C Product is not selfigniting.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C Product is not selfigniting.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting. Not determined.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting. Not determined.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting. Not determined. Not determined.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C: Solubility in / Miscibility with	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapou mixtures are possible. Not determined. Not determined. Not determined.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. <0 °C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapou mixtures are possible. Not determined. Not determined. Not determined.
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C: Solubility in / Miscibility with water: Viscosity:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C: Solubility in / Miscibility with water: Viscosity: Dynamic:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C: Solubility in / Miscibility with water: Viscosity:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C
General Information Appearance: Form: Colour: Odour: Change in condition Melting point/freezing point: Initial boiling point and boiling Flash point: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper: Vapour pressure: Density at 20 °C: Solubility in / Miscibility with water: Viscosity: Dynamic:	Aerosol Colourless Specific type Undetermined. range: Not applicable, as aerosol. < 0 °C Product is not selfigniting. Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapou mixtures are possible. Not determined. Not determined. Not determined. 0.54 g/cm ³ Not miscible or difficult to mix. Not determined.

(Contd. on page 5) EU



Printing date 30.03.2020

Version number 5

Revision: 27.03.2020

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

(Contd. of page 4)

[•] 9.2 Other information

No further relevant information available.

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 and stored according to specifications.
- 10.3 Possibility of hazardous reactions
- Reacts with strong oxidising agents.
- Danger of receptacles bursting because of high vapour pressure when heated.
- **10.4 Conditions to avoid** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
- See section 5.
- Additional information: See Section 7 for information on safe handling.

SECTION 11: Toxicological information

^{11.1} Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- Skin corrosion/irritation See section 2.
- Serious eye damage/irritation See section 2.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- . Germ cell mutagenicity 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.
- Additional toxicological information:
- The product is a preparation, for which no experimentally determined toxicity data is available.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

- * STOT-single exposure Based on available data, the classification criteria are not met.
- *STOT-repeated exposure* Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- [•] 12.1 Toxicity
- [•]Aquatic toxicity:
- Undetermined.
- No further relevant information available.
- * 12.2 Persistence and degradability Undetermined.
- · 12.3 Bioaccumulative potential Undetermined.
- * 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Not hazardous for water.
- 12.5 Results of PBT and vPvB assessment
- *PBT*: Not applicable.
- **vPvB**: Not applicable.

(Contd. on page 6)





Printing date 30.03.2020

Safety data sheet according to 1907/2006/EC, Article 31

Version number 5

Revision: 27.03.2020

(Contd. of page 5)

EU

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

* 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

[•]13.1 Waste treatment methods

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

[•] Uncleaned packaging:

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

• *Recommended cleansing agents:* See section 6.

SECTION 14: Transport information		
¹ 14.1 UN-Number		
ADR, IMDG, IATA	UN1950	
¹ 14.2 UN proper shipping name		
ADR	1950 AEROSOLS	
·IMDG	AEROSOLS	
· IATA	AEROSOLS, flammable	
14.3 Transport hazard class(es)		
ADR		
· Class	2 5F Gases.	
[•] Label	2.1	
· IMDG, IATA		
[•] Class	2.1	
Label	2.1	
14.4 Packing group		
ADR, IMDG, IATA	Void	
¹ 14.5 Environmental hazards:		
Marine pollutant:	No	
¹ 14.6 Special precautions for user	Warning: Gases.	
Hazard identification number (Kemler code):		
EMS Number:	F-D,S-U	
[•] Stowage Code	SW1 Protected from sources of heat.	
	SW22 For AEROSOLS with a maximum capacity of 1 litre	
	Category A. For AEROSOLS with a capacity above 1 litre Category B. For WASTE AEROSOLS: Category C, Clear of	
Sequencian Code	living quarters.	
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 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 2.	
	For WASTE AEROSOLS:	



Printing date 30.03.2020

Version number 5

Revision: 27.03.2020

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

	(Contd. of page 6	
	Segregation as for the appropriate subdivision of class 2.	
14.7 Transport in bulk according to Annex II of		
Marpol and the IBC Code	Not applicable.	
[•] Transport/Additional information:		
· ADR		
[•] Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
Transport category	2	
Tunnel restriction code	D	
· IMDG		
[•] Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
· UN "Model Regulation":	UN1950, 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

[•] Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

* REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

[•] Regulation (EU) No 649/2012

106-97-8 butane, pure

[•]National regulations:

* Information about limitation of use: Employment restrictions must be observed.

Other regulations, limitations and prohibitive regulations 75/324/EWG (Aerosols) 1907/2006/EC (REACH) 648/2004/EC (Detergents) 1272/2008/EC (CLP) As the case may be, aditional, national legal provisions must be observed.

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

* Department issuing SDS: Department: Quality Assurance

· Contact: Field: Chemistry

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

(Contd. on page 8)

EU



Printing date 30.03.2020

Version number 5

Revision: 27.03.2020

Trade name: Hama Compressed gas cleaner (Aerosol 400 ml (520))

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

** Data compared to the previous version altered.

(Contd. of page 7)

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