

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

Trade name: Cyclododecane Spray

Printing date 03.06.2015

Revision: 03.06.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product name: Cyclododecan Spray
 Article No: 2062 400

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

Application of the substance/
 the preparation: Lacquer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Company: Deffner & Johann GmbH
 Mühläckerstr. 13
 97520 Rötthlein/Schweinfurt
 Deutschland
 Phone: +49 (0) 09723 9350-0
 Fax: +49 (0) 09723 9350-25
 E-Mail: info@deffner-johann.de

1.4 Emergency telephone number:

Phone: +49 (0) 9723/9350-0
 (Mo, Tue, Fr 8.30 am – 14 pm)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

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



GHS2 flame

Flam. Aerosol 1, H222-H229, Extremely flammable aerosol.
 Pressurised container: May burst if heated.

2.2 Label elements**Labelling according to Regulation (EC) No. 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:



GHS2 flame

Signal word: Danger

Hazard statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

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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.
P260	Do not breathe spray.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F
P501	Dispose of contents / container in accordance with regional regulations.

Additional information:

Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards

Results of PBT and vPvB assessment:

PBT: 2946-62-2 cyclododecane
vPvB: not applicable

SECTION 3: Composition/information on ingredients**3.2 Chemical characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 74-98-6	Propane	25-<50%
EINECS: 200-827-9	Flam. Gas 1, H220; Press. Gas, H280	
Index No: 601-003-00-5		
Reg.-No.: 01-2119486944-21		
CAS: 106-97-8	Butane	25-<50%
EINECS: 203-448-7	Flam. Gas 1, H220; Press. Gas, H280	
Index No: 601-004-00-0		
Reg.-No.: 01-2119474691-32		
CAS: 294-62-2	Cyclododecane	25-<50%
EINECS: 206-033-9	non-classified PBT substance	
CAS: 75-28-5	Isobutane	10-<12,5%
EINECS: 200-857-2	Flam. Gas 1, H220; Press. Gas, H280	
Index No: 601-004-00-0		
Reg.-No.: 01-2119485395-27		

Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1% (Note P Annex 1 67/548 EU), so the classification as carcinogen need not to apply.
For the wording of the listed risk phrases refer to section 16.

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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.
After swallowing:	Drink plenty of water and provide fresh air. Call for a doctor immediately.

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, water spray, extinguishing powder.
Larger fires with water spray or foam.
Cool containers with water.

For safety reasons unsuitable extinguishing agents: Water with full jet

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

Keep away from ignition sources.
Ensure adequate ventilation.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up

Do not flush with water or aqueous cleansing agents
Ensure adequate ventilation.

6.4 Reference to other sections

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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**

Precautions for safe handling:

Keep away from heat and direct sunlight.
Ensure good interior ventilation, especially at floor level (Fumes are heavier than air).
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

Information about fire - and explosion Protection:

Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Do not seal receptacle gas tight.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

Storage class:

2B

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

106-97-8 Butane

WEL

Short-term-value: 1810 mg/m³, 750 ppm
Long-term-value: 1450 mg/m³, 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**Personal protective equipment**

General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.

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	Wash hands before breaks and at the end of work. Do not inhale gases/fumes/aerosols.
Eye protection:	Safety glasses.
Protection of hands:	Solvent resistant gloves. In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the Degradation.
Material of gloves:	Natural rubber, NR Butyl rubber, BR
Penetration time of glove material:	Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone: 480 min Butyl acetate: 60 min Ethyl acetate: 170 min Xylene: 42 min
Body protection:	Light weight protective clothing.
Respiratory protection:	Not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Form:	Aerosol
Colour:	Clear
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition:	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	Not applicable, as aerosol.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	230 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
Explosion limits	
Lower (Vol-%):	1,5
Upper (Vol-%):	10,9
Vapour pressure:	8300 hPa (20 °C)
Density at 20°C	0,65 g/m ³
Vapour density:	Not determined.
Relative Density:	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	

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water (g/l):	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content	
VOC-(EU):	488,6 g/l
VOC_EU%:	75 %
Solid content:	25 %

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No 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.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known.

10.7 Other information

No further relevant information available.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Acute toxicity:	
Primary irritant effect:	
Skin corrosion/irritation:	No irritating effect.
Serious eye damage/irritation:	No irritating effect.
Respiratory or skin sensitisation:	No sensitising effects known.
Additional toxicological information:	Vapours have narcotic effect.

11.2 Further information

No further relevant information available.

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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.

Additional ecological information:

General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Water hazard class 1:
(German Regulation)

slightly hazardous for water (Self-assessment)

12.5 Results of PBT and vPvB assessment

PBT:

294-62-2 Cyclododecane

vPvB:

Not applicable.

12.6 Other adverse effects

No further relevant information available.

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.

European waste catalogue

08 01 11

Waste paint and varnish containing organic solvents or other dangerous substances.

15 01 04

Metallic packaging

15 01 11

metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers.

Uncleaned packaging

Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information**14.1 UN-Number**

ADR/IMDG/IATA:

UN 1950

UN proper shipping name:

1950 AEROSOLS



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Class: 2 5F Gases
Label: 2.1

14.2 UN proper shipping name

ADR: UN1950 AEROSOLS
IMDG: AEROSOLS
IATA: AEROSOLS, flammable

Marine pollutant: No

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

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Warning: Gases
Danger code (Kemler): -
EMS-Number: F-D/S-U

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

14.8 Transport / additional information**ADR:**

Limited quantities (LQ): 1 L
Excepted quantities (EQ): Code: E0; not permitted as Excepted Quantity
Transport category: 2
Tunnel restriction code: D

IMDG:

Limited quantities (LQ): 1 L
Excepted quantities (EQ): Code: E0; not permitted as Excepted Quantity
UN "Model Regulation": UN1950, AEROSOLS, 2.1

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Information about limitation of use:	Employment restrictions concerning juveniles must be observed.
Waterhazard class:	Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

16.1 Relevant phrases:

Full text of H-Statements:

H- und EUH-Sätze	
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.

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)
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
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)
Flam. Gas 1:	Flammable gases, Hazard Category 1
Flam. Aerosol 1:	Flammable aerosols, Hazard Category 1
Press. Gas C:	Gases under pressure: Compressed gas

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

This information contained herein is based on the present state of knowledge and is intended to describe the product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.