



H. A. Springer marine + industrie service GmbH
24145 Kiel

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1 Identification of the substance / preparation and of the company

1.1 Product identifier

Release agent spray FT 36 (400 ml)

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

1.2.1 Relevant uses

Separating agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

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info-springer@springer-kiel.com

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

+49 (0) 89-19240 (24h) (english)

2 Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Aerosol 1, H222
Press. Gas (*), H280
Classification according to conversion table Annex VII 1272/2008/EC

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

F+, R 12

2.2 Label elements

Hazard symbols



Extremely flammable

R-phrases

R 12: Extremely flammable.

S-phrases

S 23.4: Do not breathe spray.
S 51: Use only in well-ventilated areas.

Special labelling

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
Keep out of the reach of children.

2.3 Other hazards

none

Physico-chemical hazards

See chapter 10.

Human health dangers

No particular hazards known.

Environmental hazards

No particular hazards known.

Other hazards

none



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3 Composition / Information on ingredients

3.1 Product-type:

The product in question is a mixture.

Range [%]	Substance
50 - < 100	Propane/Butane
	CAS: 74-98-6/ 106-97-8, EINECS/ELINCS: 200-827-9/ 203-448-7, EU-INDEX: 601-003-00-5/ 601-004-00-0
	GHS/CLP: Flam. Aerosol 1, H220
	EEC: F+, R 12

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information

Change soaked clothing.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek for medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

none

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide.
Water spray jet.
Dry powder.
Alcohol-resistant foam.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Cool containers at risk with water spray jet.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.



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6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See Chapter 8+13

7 Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Do not store together with oxidizing agents.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, Chapter 1.2

8 Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
50 - < 100	Propane/Butane / 600 ppm, 1450 mg/m ³ , (Butane)

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Butyl rubber, >480 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	not applicable
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A.
Thermal hazards	no
Delimitation and monitoring of the environmental exposition	not determined



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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Color	colourless
Odor	odourless
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	0,599 (20°C / 68,0°F)
Bulk density [kg/m ³]	not applicable
Solubility in water	not applicable
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

9.2 Other information

none

10 Stability and reactivity

10.1 Reactivity

See chapter 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Because of the high vapour pressure, containers are liable to burst if temperature rises.

10.4 Conditions to avoid

See chapter 7

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

Flammable gases/vapours.



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11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
50 - < 100	Propane/Butane, CAS: 74-98-6/ 106-97-8
	LC50, inhalative, Rat: >800000 ppm IUCLID.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Toxicological data are not available.
No classification on the basis of the calculation procedure of the preparation directive.

12 Ecological information

12.1 Toxicity

12.2 Persistence and degradability

	not determined
Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data are not available.
No classification on the basis of the calculation procedure of the preparation directive.

13 Disposal considerations

13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

Product

Dispose of as hazardous waste.
Dispose in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*



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14 Transport information

14.1 UN number

See point 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Classification according to ADR UN 1950 AEROSOLS 2.1

- Classification Code 5F

- Label



- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Classification according to IMDG UN 1950 Aerosols 2.1 -

- EMS F-D, S-U

- Label



- IMDG LQ 1 I

Classification according to IATA UN 1950 Aerosols, flammable 2.1

- Label



14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

14.4 Packing group

See point 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under points 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15 Regulatory information

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

EEC-REGULATIONS 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

15.2 Chemical safety assessment

not applicable

16 Other informations

R-phrases (Chapter 03) R 12: Extremely flammable.

Hazard statements (Chapter 03) H220 Extremely flammable gas.

Observe employment restrictions for people yes

VOC (1999/13/CE) > 69 %

Customs Tariff not determined

Disclaimer: 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.

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