

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

Name of product Stainless Steel Spray Perfect "bright grade" (GB)
Art.-Nr. 0690 112 400

**1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s)**

Technical Aerosols

1.3. Details of the supplier of the safety data sheet**Manufacturer/distributor**

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Advice

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1.4. Emergency telephone number**Emergency advice**

(8:30h - 18:00h) VELLE Kimyasal
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC**

F+; R12

R67

R-phrases

12 Extremely flammable.

67 Vapours may cause drowsiness and dizziness.

2.2. Label elements**Labelling according to 1999/45/EC****Remarks for labelling**

The product is classified and labelled in accordance with EC directives.

F+ Extremely flammable
Xi Irritant

R-phrases

12 Extremely flammable.

67 Vapours may cause drowsiness and dizziness.

S-phrases

23 Do not breathe spray.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/39 Wear suitable protective clothing and eye/face protection.

51 Use only in well-ventilated areas.

Special rules for supplemental label elements for certain mixtures

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.

Without sufficient ventilation the formation of explosive vapour/air mixtures cannot be excluded. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

Contains: Nickel. May produce an allergic reaction.

2.3. Other hazards
Information pertaining to special dangers for human and environment

In extensive use, formation of flammable / explosive vapour-air mixture is possible.

Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/ information on ingredients
3.1. Substances

not applicable

3.2. Mixtures
Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
67-64-1	200-662-2	acetone	2,5 - 9	F R11; Xi R36; R66; R67
71-36-3	200-751-6	butan-1-ol	<= 2,5	R10; Xn R22; Xi R37/38-41; R67
100-41-4	202-849-4	ethylbenzene	<= 2,5	F R11; Xn R20
115-10-6	204-065-8	dimethylether	50 - 99	F+ R12
123-86-4	204-658-1	n-butyl acetate	2,5 - 10	R10; R66; R67
141-78-6	205-500-4	ethyl-acetate	2,5 - 9	F R11; Xi R36; R66; R67
1330-20-7	215-535-7	xylene	2,5 - 9	R10; Xn R20/21; Xi R38

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
67-64-1	200-662-2	acetone	2,5 - 9	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
71-36-3	200-751-6	butan-1-ol	<= 2,5	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / STOT SE 3, H335 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / STOT SE 3, H336
100-41-4	202-849-4	ethylbenzene	<= 2,5	Flam. Liq. 2, H225 / Acute Tox. 4, H332
115-10-6	204-065-8	dimethylether	50 - 99	Flam. Gas 1, H220 / Press. Gas
123-86-4	204-658-1	n-butyl acetate	2,5 - 10	Flam. Liq. 3, H226 / STOT SE 3, H336
141-78-6	205-500-4	ethyl-acetate	2,5 - 9	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1330-20-7	215-535-7	xylene	2,5 - 9	Flam. Liq. 3, H226 / Acute Tox. 4, H332 / Acute Tox. 4, H312 / Skin Irrit. 2, H315

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

Remove contaminated soaked clothing immediately.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

In case of eye contact

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

In case of ingestion

Do not induce vomiting.
Medical treatment.

4.2. Most important symptoms and effects, both acute and delayed**Physician's information / possible symptoms**

The following symptoms may occur:

Unconsciousness
Anaesthetic state
Headache
Confusion
Dizziness

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Dry powder
Carbon dioxide
sand

Unsuitable extinguishing media

water

5.2. Special hazards arising from the substance or mixture

Danger of bursting
Fire gas of organic material has to be classed invariably as respiratory poison.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Vapours are heavier than air and will spread on the ground.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

6.3. Methods and material for containment and cleaning up

Take up with absorbent material.
After taking up the material dispose according to regulation.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

General protective measures

Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs.
Use barrier skin cream.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Vapours can form an explosive mixture with air.
Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Adhere to administrative regulations relating to storage of compressed gas cylinders / containers.

Further information on storage conditions

Protect from direct solar radiation.
Store container at cool and aired place.
Protect from heat/overheating.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
67-64-1	Acetone	8 hours	1210	500	EH40/2005
		Short-term	3620	1500	
71-36-3	butan-1-ol	8 hours			EH40/2005
		Short-term	154	50	
115-10-6	Dimethyl ether	8 hours	766	400	EH40/2005
		Short-term	958	500	
141-78-6	Ethyl acetate	8 hours		200	EH40/2005
		Short-term		400	
100-41-4	Ethylbenzene	8 hours	441	100	EH40/2005
		Short-term	552	125	
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours	220	50	EH40/2005
		Short-term	441	100	

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
100-41-4	ethylbenzene	8 hours	442	100	skin
		Short-term	884	200	
115-10-6	dimethylether	8 hours	1920	1000	
1330-20-7	xylene, mixed isomers, pure	8 hours	221	50	skin
		Short-term	442	100	
67-64-1	acetone	8 hours	1210	500	

8.2. Exposure controls**Respiratory protection**

If ventilation insufficient, wear respiratory protection.
Short term: filter apparatus, Filter A/P2

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

Eye protection

safety goggles

Skin protection

protective clothing

Additional advice on system design

Sufficient ventilation and exhaustion.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Form**

aerosol

Colour

silver-coloured

Odour

characteristic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state					not applicable
boiling point	-24 °C				
Flash point	-42 °C				Aerosol
Ignition temperature	235 °C				
Autoignition	no				
Lower explosion limit	3 Vol-%				
Upper explosion limit	18,6 Vol-%				
Vapour pressure	5200 hPa	20 °C			
Relative density	not determined				
Solubility in water					No or low immiscibility

Explosive properties

The product is considered non-explosive ; nevertheless explosive vapour/air mixtures can be generated .

9.2. Other information

No information available.

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

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

Formation of explosive gas/air mixtures.

10.4. Conditions to avoid

Keep away from heat.

Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
Irritability skin	non-irritant			
Irritability eye	non-irritant			
Skin sensitization	non-sensitizing			

Experiences made from practice

Inhalation causes narcotic effect/intoxication.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).

SECTION 12: Ecological information**12.1. Toxicity**

No information available.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects**General regulation**

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste code No.**

16 05 04*

Name of waste

gases in pressure containers (including halons) containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

For proper waste disposal a complete emptying of the tin is necessary.

SECTION 14: Transport information**Land and inland navigation transport ADR/RID**

UN 1950 AEROSOLS, 2.1, (D), Classification code: 5F
transport in "limited quantities" according to 3.4 ADR is possible

Marine transport IMDG

UN 1950 AEROSOLS, 2.1

Transport as limited quantities according to 3.4 IMDG Code is possible.

Air transport ICAO/IATA-DGR

UN 1950 Aerosols, flammable, 2.1

Transport/further information

24h EMERGENCY CONTACT (TRANSPORT) +49(0)178 433 7434 (Consultank Lutz Harder GmbH)

Special precautions for user

No information available.

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

not applicable

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

Daten separat anfragen / Request data separately.

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 10 Flammable.

R 11 Highly flammable.

R 12 Extremely flammable.

R 20 Harmful by inhalation.

R 20/21 Harmful by inhalation and in contact with skin.

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

R 37/38 Irritating to respiratory system and skin.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

H220 Extremely flammable gas.



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

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Stainless Steel Spray Perfect "bright grade" (GB)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.