

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

1.1. Product identifier Name of product	SEAL Spray
<b>1.2. Relevant identified uses of the substance of Recommended intended purpose(s)</b> Form a protective film	or mixture and uses advised against
1.3. Details of the supplier of the safety data sh	neet
Manufacturer	F.W.Klever Hauptstraße 20, D-84168 Aham Phone +49 (0) 8744 96 99 10, Fax + 49 (0) 8744 96 99 96
	E-Mail info@ballistol.de Internet www.ballistol.de
Advice	Qualitätssicherung Phone +49 (0) 8744 96 99 30 E-mail (competent person): info@ballistol.de
1.4. Emergency telephone number	
Emergency advice	Dr.Zettler (Werktags von 8.00 Uhr bis 16.00 Uhr) Phone +49 (0) 8744 96 99 30 This number is only available at office times.

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# Classification according to 67/548/EEC or 1999/45/EC

Elam Aaraaal 1		L1000		
Hazard classes ar categories	nd Hazard	Hazard Statements	Classification procedure	
Classification ac	cording to	Regulation (EC)	No 1272/2008 [CLP/GHS]	
67	Vapours m	ay cause drowsine	ss and dizziness.	
66	Repeated e	exposure may caus	se skin dryness or cracking.	
36	Irritating to	eyes.		
12	Extremely f	flammable.		
R-phrases				
R67				
R66				
Xi; R36				
F+; R12				



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

Hazard classes and Hazard	Hazard Statements	<b>Classification procedure</b>
categories		

H336

STOT SE 3

Hazard statements for physical hazards Extremely flammable aerosol. H222

# Hazard statements for health hazards

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

# 2.2. Label elements

# Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

# Signal word

Danger

# Hazard statements for physical hazards

H222 Extremely flammable aerosol.

# Hazard statements for health hazards

H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

# **Precautionary Statements**

General
P102

Keep out of reach of children.

Prevention	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
Response	
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
<b>Storage</b> P410 + P412	Protect from cuplight. Do no cupage to temperatures eveneding 50°C/120°E
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50°C/ 122°F.
<b>Disposal</b> P501	Dispose of contents/container to recycling
1 001	Dispose of contents/container to recycling

# 2.3. Other hazards



# Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# SECTION 3: Composition/ information on ingredients

# Additional advice

Aerosol: Propellant propane/butane gas

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures General information

Remove contaminated soaked clothing immediately.

# In case of inhalation

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

# In case of skin contact

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

# In case of eye contact

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

# In case of ingestion

Do not induce vomiting. If troubles appear bring to a medical treatment Rinse out mouth thoroughly with water.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed Treatment (Advice to doctor)** Treat symptoms.

# **SECTION 5: Firefighting measures**

**5.1. Extinguishing media Suitable extinguishing media** Foam Carbon dioxide Water spray jet

Unsuitable extinguishing media Full water jet

**5.2. Special hazards arising from the substance or mixture** Carbon monoxide (CO) Carbon dioxide (CO2) Vapours may form explosive mixtures with air



5.3. Advice for firefightersSpecial protective equipment for fire-fightersUse breathing apparatus with independent air supply ( isolated ).

# Additional information

Cool endangered containers with water spray jet. Heating causes rise in pressure with risk of bursting

# **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. Do not breath vapour or spray.

# 6.2. Environmental precautions

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

# 6.3. Methods and material for containment and cleaning up

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

# 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.

Do not spray into flames or ignition sources

# **General protective measures**

Avoid contact with eyes and skin Do not inhale aerosols

# Hygiene measures

At work do not eat, drink, smoke or take drugs. Storing of food in workroom forbidden. Wash hands before breaks and after work. Use barrier skin cream.

# Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking Protect aerosols from temperatures exceeding 50°C Do not open with force or incinerate, even when empty

# 7.2. Conditions for safe storage, including any incompatibilities

Advice on storage compatibility Do not store together with food.

# Further information on storage conditions

Protect from extreme heat and cold. Keep cool.

Storage group 2B



**7.3. Specific end use(s)** No information available.

no mormation available.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# 8.2. Exposure controls Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. The following applies to propane in general: If the concentration is exceeded, closed-circuit breathing apparatures must be used Use filter apparatus type AX, identification colour brown according to EN 371

# Hand protection

Gloves (solvent-resistant)

# Eye protection

With demand: protective glasses

# Skin protection protective clothing

Limitation and surveillance of the environment

# **SECTION 9: Physical and chemical properties**

9.1. Information on basi Form aerosol	o priyolour und	<b>Colour</b> colourless, clear		<b>Odour</b> solvent-like	e
Important health, safety	and environm	ental informatio	n		
	Value	Temperature	at	Method	Remark
boiling range	ca. 78 °C				Details refer to the active agent (without consideration of the propellant)
melting temperature	ca85 °C			DIN/ISO 3016	Details refer to the active agent (without consideration of the propellant)
Flash point	< 0 °C				information for solvent
Lower explosion limit	ca. 2 Vol-%				information concern solvent



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	Value	Temperature	at	Method	Remark
Upper explosion limit	ca. 11,5 Vol-%				information concern solvent
Vapour pressure	ca. 100 hPa	20 °C			Details refer to the active agent (without consideration of the propellant)

### 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

No information available.

# 10.4. Conditions to avoid

Formation of explosive gas/air mixtures. Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50°C.

# 10.5. Incompatible materials Materials to avoid

Reactions with strong oxidising agents.

# 10.6. Hazardous decomposition products

No hazardous decomposition products known. Additional information Product is stable under normal storage conditions

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

# Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	6600 mg/kg	rat	OECD 401	Information concerns to main component.
LD50 acute dermal	14000 mg/kg	rabbit	OECD 402	
LC50 acute inhalation	116 mg/l (8 h)	rat	OECD	Details refer to the main component



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	Value/Validation	Species	Method	Remark
Irritability skin	low irritant effect - not necessary to label	rabbit		
Irritability eye	strong irritant	rabbit eye		
Skin sensitization	non-sensitizing	Guinea pig	OECD 406	

# Toxicity test (Additional information)

There is no risk for a normal operation application

### Experiences made from practice

Has a degreasing effect on the skin. Frequent persistent contact with the skin may cause skin irritation.

### Additional information

The product has not been tested. The information is derived from the properties of the individual components.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

# **Ecotoxicological effects**

Ecotoxicolog	Value	Species	Method	Validation
Fish	LC50 460 mg/l (96 h)	Pimephales	promelas	The product is highly volatile.
Daphnia	EC50 1450 mg/l (48 h)	Daphnia mag	gna	
Algae	NOEC 6600 mg/l (48 h)	Pseudokirch subcapitata (		
Bacteria	EC10 5800 mg/l (16 h)	Pseudomona	as putida	
12.2. Persiste Biological degradability	nce and degradability 91 % (28 d)		OECD 301 B	
Degradability	> 70 % (20 d)			readily degradable
12.3. Bioaccu No information	mulative potential available.			
12.4. Mobility No information				
The substance	of PBT and vPvB assessies in the mixture do not mee Iverse effects		criteria according to REA	ACH, annex XIII.
Additional ec	ological information Value	Method	Remark	
COD	2100 mg/l			



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Value	Method	Remark	

BOD 5 d

1900 mg/l

# **General regulation**

Do not allow uncontrolled leakage of product into the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste code No. 14 06 03\*

Name of waste other solvents and solvent mixtures

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

# Recommendations for the product

Dispose as specified by the public authorities.

# **Recommendations for packaging**

Totally emptied packaging may be taken for recycling. Barrel: return by DSD ( Dualistic System Germany )

# **SECTION 14: Transport information**

Land and inland navigation transport ADR/RID UN/ID-Number: 1950, Aerosols, flammable Marine transport IMDG UN 1950 Aerosols (max1L) IMDG class 2, Code- see SP63, EmS: F-D, S-U ; packaging instructions: P003 - LP02; packaging order: PP17-PP87-L2. Air transport ICAO/IATA-DGR

UN/ID-Nummer:1950, Aerosols, flammable, Class 2.1, ICAO/IATA: Class 2.1, Passanger/Cargo:203

**Special precautions for user** No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available.

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# **SECTION 15: Regulatory information**

# **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Other regulations (EU)** Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in

the workplace.

Aerosol directive (75/324/EEC).

#### National regulations Restriction of occupation

Observe employment restrictions for young people.

Water hazard class

value from literature



# 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.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

# **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.

R12 = Extremely flammable

- R36 = Irritate the eyes
- R66 = Repeated contact can lead to brittle or cracked skin

R67 = Steams can cause doziness or stupor