



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

1.1. Product identifier

Name of product RS MIL

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

Muzzle cleaner

1.3. Details of the supplier of the safety data sheet

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

Xi; R36/37/38

R-phrases

36/37/38 Irritating to eyes, respiratory system and skin.

Additional hints

To be kept away from children

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Skin Irrit. 2	H315	
Eye Irrit. 2	H319	
STOT SE 3	H335	

Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

2.2. Label elements

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



GHS07

Signal word

Warning

Hazard statements for health hazards

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements

General

P102 Keep out of reach of children.

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/container to recycling

2.3. Other hazards

No information available.

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
1336-21-6	215-647-6	ammonia%	< 10	C R34; N R50



Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
1336-21-6	215-647-6	ammonia%	< 10	Skin Corr. 1B, H314 / Aquatic Acute 1, H400

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of inhalation

Remove the casualty into fresh air and keep him immobile.
If intensive inhalation of fumes seek medical treatment immediately.

In case of skin contact

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

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

If swallowed seek medical advice immediately and show the doctor packing or label.
Rinse out mouth and give plenty of water to drink.

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.
After swallowing: Early endoscopy, to evaluate possibly occurred alternation of the mucous membrane in oesophagus and stomach. If necessary suction of remained substance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Additional information

Product is incombustible

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.
Avoid contact with substance



6.2. Environmental precautions

Do not discharge into surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Dilute with water.

Flush away residues with water.

Take up mechanically and send for disposal.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures necessary if used correctly.

General protective measures

Avoid contact with eyes and skin

Hygiene measures

Clean skin thoroughly after working.

At work do not eat, drink, smoke or take drugs.

Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

The product is not combustible.

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Advice on storage compatibility

Do not store together with food.

Further information on storage conditions

Keep container tightly closed, open and handle carefully.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No information available.

8.2. Exposure controls

Hand protection

Gloves (alkali-resistant)

The material of the gloves has to be impermeable and consistent for the substance. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection

With demand: protective glasses



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid	Colour orange	Odour similar to ammonia
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Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 9	20 °C			
Flash point					No flash point Measurement had been done until boiling temperature.
Relative density	0,954 g/cm ³	20 °C	1013 hPa		
Solubility in water					multimiscible

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

Acid, concentrated
Oxidising agent, strong

10.4. Conditions to avoid

Erhitzung
No hazardous reactions known.

10.5. Incompatible materials

No information available.

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	1070 mg/kg	rat		
LC50 acute inhalation	1,4 mg/l (4 h)	rat		Date apply to anhydrous substance
Irritability skin	strong irritant	rabbit		Information apply to conc. ammonia
Irritability eye	strong irritant	rabbit eye		Information apply to conc. ammonia
Skin sensitization	non-sensitizing	Guinea pig		Information apply to conc. ammonia

Toxicity test (Additional information)

No experimental indication of genotoxicity in vitro (Ames-test negative).

No experimental indication of genotoxicity in vivo (micronucleus test negative).

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

	Value	Species	Method	Validation
Fish	LC50 0,33 - 2,33 mg/l (96 h)	Oncorhynchus mykiss		
Daphnia	EC50 53,5 mg/l (48 h)	Daphnia magna		

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

No information available.

12.6. Other adverse effects

Behaviour in sewage plant

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.



The product is an alkaline solution. Neutralization is normally necessary before waste water is discharged into sewage treatment plants.

General regulation

The breakdown properties of the product have not been tested. The information on these is given on the basis of details in the literature.

The behaviour of the product in sewage treatment plants has not been tested. The information on this is given on the basis of details in the literature.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.	Name of waste
06 02 05*	other bases

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

Recommendations for the product

Neutralize with hydrochloric acid or sulphuric acid.
Dilution with water.

Recommendations for packaging

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

Recommended cleansing agent

Water

General information

Waste removal corresponding to official directives

SECTION 14: Transport information

Land and inland navigation transport ADR/RID

No dangerous goods as defined by these transport regulations.

Marine transport IMDG

No dangerous goods as defined by these transport regulations.

Air transport ICAO/IATA-DGR

No dangerous goods as defined by these transport regulations.

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

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.



SECTION 15: Regulatory information

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

National regulations

Water hazard class 2 self-classification

No information available.

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.

Keep out of the reach of children.

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.

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

R 34 Causes burns.

R 50 Very toxic to aquatic organisms.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.