Safety Data Sheet (1907/2006/EC)

Material: 82841713 **LUISO W31**

Version 3.0 (GB) Print Date 13.01.2026 Date of last alteration: 13.01.2026

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

1.1 Product identifier

Commercial product name: **LUISO W31**

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

Use of substance / preparation:
Isolation of metal parts.

All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:	DAM Härtetechnik GmbH
Street/POB-No.:	Am Bubenpfad 2
State/postal code/city:	67065 Ludwigshafen
Telephone:	+49 621 4549666

Information about the Safety Data Sheet:	Telephone	+49 621 4549666
	eMail	info@dam-gmbh.de

1.4 Emergency telephone number

Emergency Information: **+49 621 4549666**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Repr. 1B H360FD May damage fertility. May damage the unborn child.

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

GHS08
Signal word Danger
Hazard-determining components of labelling:
boric acid
Hazard statements
H360FD May damage fertility. May damage the unborn child.
Precautionary statements
P281 Use personal protective equipment as required.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P302+P352 IF ON SKIN: Wash with plenty of soap and water. P404 Store in a closed container.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional information:
Reproductive/Developmental: Animal ingestion studies in several species, at high doses, indicate that boric acid and sodium tetraborate cause reproductive and developmental effects.

A human study of occupational exposure to borate dust showed no adverse effect on reproduction.
Ingestion: Products containing boric acid are not intended for ingestion. Boric acid has low acute toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects; swallowing amounts larger than that may cause gastrointestinal symptoms.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Mixture of aqueous polymer dispersion and boric acid.

3.2.2 Hazardous ingredients

Mixture of the substances listed below with harmless additions.
Dangerous components:
CAS: 10043-35-3
EINECS: 233-139-2
boric acid 50% T Repr. Cat. 2 R60-61
Repr. 1B, H360FD

SVHC
10043-35-3 boric acid Additional information:

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Under ordinary workplace conditions: No special measures required.

After contact with the eyes:
Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After contact with the skin:
Wash with plenty of water or water and soap. Seek medical advice in case of continuous irritation.

After inhalation:
No special measures required.

After swallowing:
In cases of sickness seek medical advice (show label if possible).

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary. Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
not applicable.

Extinguishing media which must not be used for safety reasons:
not applicable.

5.2 Special hazards arising from the substance or mixture

At low oxygen level: acetic acid.

5.3 Advice for firefighters

Special protective equipment for fire fighting:
Use respiratory protection independent of recirculated air.

General information:
Product does not burn. Use extinguishing measures appropriate to the source of the fire. Dried up material is combustible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth).

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

General information:

No special protective measures required.

Precautions for safe handling:
Spilled substance increases risk of slipping.

Precautions against fire and explosion:
No special precautions against fire and explosion required.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:
Protect against frost.

Advice for storage of incompatible materials:
not applicable.

Further information for storage:
exempt.

Minimum temperature allowed during storage and transportation: 0 °C

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

-

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:
Do not eat or drink when handling.

Further information for system design and engineering measures

No special measures required.

Personal protection equipment:

Respiratory protection

No personal respiratory protective equipment normally required.

Eye protection

protective goggles.

Hand protection

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

For the choice of suitable gloves, workplace conditions have to be considered, like e.g. handling of other substances and materials.

Recommended glove types: Rubber gloves

Skin protection

not required .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering sewers or surface waters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:	Value:	Method:
Physical state	liquid	
Colour	pink	
Odour	faint	
Odour Threshold	no data available	
Melting point	0 °C at 1013 hPa	(Lit.)
Boiling point/boiling range	100 °C at 1013 hPa	(Lit.)
Lower explosion limit	not applicable	
Upper explosion limit	no data available	
Flash point	not applicable	
Ignition temperature	Not applicable.	
Thermal decomposition	no data available	
pH	6,0 – 7,0 (52,0	(DIN/ISO 976)
Viscosity, kinematic	no data available	
Viscosity, dynamic	50 - 400 mPas at 23 °C	(DIN EN ISO 2555)
Water solubility	partly soluble	
Partition coefficient: n-octanol/water	no data available	
Vapour pressure	23 hPa at 20 °C	
Density	1,07 g/cm³ (23 °C)	(DIN EN ISO 2811-3)
Relative vapour density	no data available	
Particle Size Distribution	No data available.	

9.2 Other information

No data available.

Property:	Value:	Method:
Evaporation rate	no data available	
Molecular weight	not applicable	

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

If stored and handled properly: none known. Acetic acid at increased temperature.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure.

Product details:

Exposure routes	Result/Effect
Oral	LD50 > 2660 mg/kg Species: Rat, Method: OECD 423, Source: Conclusion by analogy

11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

No skin irritation (Species: human keratinocytes, Method: OECD 439, Source: Conclusion by analogy)
No skin irritation (Species: Rabbit, Method: OECD 404, Source: Conclusion by analogy)

11.1.3 Serious eye damage/eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

No eye irritation (Method: OECD 492, Source: Conclusion by analogy)
No eye irritation (Species: Rabbit, Method: OECD 405, Source: Conclusion by analogy)

11.1.4 Respiratory or skin sensitisation

Assessment:

Based on the available data a sensitization reaction is not expected from this product.

11.1.5 Germ cell mutagenicity

Assessment:

Based on known data a significant mutagenic potential may be excluded.

negative (Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: Conclusion by analogy)

11.1.6 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity - single exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity - repeated exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Further toxicological information

No information on damage to health during manufacture and use.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

Result/Effect	Species/Test system	Source
LC50: > 100 mg/l	Oncorhynchus mykiss (rainbow trout) (96 h)	Conclusion by analogy OECD 203
EC50: > 1000 mg/l	Daphnia magna (Water flea) (48 h)	Conclusion by analogy OECD 202
EC10: > 1000 mg/l	activated sludge (0,5 h)	Conclusion by analogy

12.2 Persistence and degradability

Assessment:

Polymer component: Not readily biodegradable. Elimination by adsorption to activated sludge. Separation by flocculation is possible.

12.3 Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4 Mobility in soil

Assessment:

No adverse effects expected.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

none known

Additional information

According to present knowledge no adverse influence to environment expected.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:
Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

13.1.2 Uncleaned packaging

Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

Recommended cleaning agent:
water

13.1.3 Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:
Valuation .....: Not regulated for transport

Railway RID:
Valuation .....: Not regulated for transport

Transport by sea IMDG-Code:
Valuation .....: Not regulated for transport

Air transport ICAO-TI/IATA-DGR:
Valuation .....: Not regulated for transport

14.5 Environmental hazards

Hazardous to the environment: no

14.6 Special precautions for user

Relevant information in other sections has to be considered.

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

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

Not applicable

Relevant regulations:
SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Japan ..... : **ENCS** (Handbook of Existing and New Chemical Substances):
This product is not listed or in compliance with the substance inventory.

Australia ..... : **AIIC** (Australian Inventory of Industrial Chemicals):
This product is listed in, or complies with, the substance inventory.

Canada ..... : **DSL** (Domestic Substance List):
This product is listed in, or complies with, the substance inventory.

Philippines..... : **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):
This product is not listed or in compliance with the substance inventory.

United States of America (USA)..... : **TSCA** (Toxic Substance Control Act Chemical Substance Inventory):
All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan ..... : **TCSI** (Taiwan Chemical Substance Inventory):
This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA)..... : **REACH** (Regulation (EC) No 1907/2006):
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea) ..... : **AREC** (Act on Registration and Evaluation of Chemicals; “K-REACH”):
Please approach your regular contact for more detailed information.

15.2 Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Key or legend to abbreviations and acronyms used in the safety data sheet

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-

RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm³ - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;IC50 / CI50 - half maximal inhibitory concentration;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m³ - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm²/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative

- End of Safety Data Sheet -