

Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 1 of 13

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

1.1. Product identifier

LS200N

Further trade names

SP I 200N

62000007 Ag Paste L200N

UFI: QN25-FVK7-D003-YUG5

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

Use of the substance/mixture

Stone, plaster, cement, glass and ceramic articles; conductive;

1.3. Details of the supplier of the safety data sheet

Company name: Hans Wolbring GmbH Street: Rudolf-Dieselstr.13-17 Place: D-56203 Höhr-Grenzhausen

Telephone: 02624-18089-0 Telefax: 02624-18089-280

E-mail: info@keramikbedarf.de Internet: www.keramikbedarf.de

1.4. Emergency telephone 02624-18089-0 (Bürozeiten Mo-Fr 07.30 Uhr-12.00 Uhr und 13.00 Uhr-17.00

number: Uhr)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

1,2-Propanediol, monoethyl ether acetone; propan-2-one; propanone ethyl acetate

Signal word: Danger

Pictograms:







Hazard statements

Highly flammable liquid and vapour. H225 H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 2 of 13

Precautionary statements

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P370+P378 In case of fire: Use sand, extinguishing powder or alcohol-resistant foam to extinguish.

P391 Collect spillage.

P501 Collect in closed and suitable containers for disposal.

Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger

Pictograms:







Hazard statements

H336

Precautionary statements

P102-P233-P261-P501

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

SILVER NITROCELLULOSE ETHYL ACETATE

ACETONE

ALCOHOL



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 3 of 13

Hazardous components

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	1272/2008)	•		
7440-22-4	silver			>=25-<50 %	
	231-131-3		01-2119555669-21		
	Aquatic Acute 1, Aquatic Chronic 1	; H400 H410			
52125-53-8	1,2-Propanediol, monoethyl ether			>=20-<25 %	
	610-784-1				
	Flam. Liq. 3, Eye Irrit. 2, STOT SE	3; H226 H319 H336			
64-17-5	ethanol; ethyl alcohol		>=10-<20 %		
	200-578-6	603-002-00-5			
	Flam. Liq. 2; H225				
67-64-1	acetone; propan-2-one; propanone			>=3-<10 %	
	200-662-2	606-001-00-8			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE	3; H225 H319 H336 EUH066	•		
141-78-6	ethyl acetate			>=1-<3 %	
	205-500-4	607-022-00-5			
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits. M-factors and ATE

opecine con	ic. Ellillits, Wi-la	Ctors and ATE	
CAS No	EC No	Chemical name	Quantity
	Specific Conc	Limits, M-factors and ATE	
7440-22-4	231-131-3	silver	>=25-<50 %
	1 '	1; H400: M=10 ic 1; H410: M=10	
52125-53-8	610-784-1	1,2-Propanediol, monoethyl ether	>=20-<25 %
	dermal: LD50	= 2001 mg/kg; oral: LD50 = >5001 mg/kg	
64-17-5	200-578-6	ethanol; ethyl alcohol	>=10-<20 %
	inhalation: LC	50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg	
67-64-1	200-662-2	acetone; propan-2-one; propanone	>=3-<10 %
	inhalation: LC	50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

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

No information available.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 4 of 13

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder. alcohol resistant foam carbon dioxide (CO2)

Dry extinguishing powder

Unsuitable extinguishing media

high volume water jet

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

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



according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 5 of 13

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

Further information on storage conditions

No decomposition if stored and applied as directed.

7.3. Specific end use(s)

Stone, plaster, cement, glass and ceramic articles; conductive;

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	
64-17-5	Ethanol	1000	-		STEL (15 min)	
141-78-6	Ethyl acetate	200	734		TWA (8 h)	
		400	1468		STEL (15 min)	
7440-22-4	Silver (metallic)	-	0.1		TWA (8 h)	

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-64-1	Acetone	Acetone	50 mg/L	Urine	End of shift

DNEL/DMEL values

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
52125-53-8	1,2-Propanediol, monoethyl ether				
Worker DNEL, long-term		inhalation	systemic	106 mg/m³	
Worker DNEL, acute		inhalation	systemic	500 mg/m³	
Worker DNEL, long-term		dermal	systemic	74 mg/kg bw/day	



according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 6 of 13

PNEC values

CAS No	Substance	
Environmenta	l compartment	Value
52125-53-8	1,2-Propanediol, monoethyl ether	
Freshwater		10 mg/l
Marine water		1 mg/l
Freshwater sediment		37,6 mg/kg
Marine sediment		3,76 mg/kg
Micro-organisms in sewage treatment plants (STP)		1250 mg/l
Soil		1,97 mg/kg

8.2. Exposure controls





Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:

Colour:

Odour:

Odour:

Odour threshold:

Liquid

silver

characteristic

No data available

Test method

Melting point/freezing point:

not determined

Boiling point or initial boiling point and

No data available

boiling range:

Flammability: not applicable not applicable

2 vol. %

Lower explosion limits:



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 7 of 13

Flash point: 12 °C DIN 51755

Auto-ignition temperature:

Decomposition temperature:

pH-Value:

No data available

Water solubility:

soluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: >1.100 - 1.750 hPa

(at 50 °C)

Vapour pressure: 1,1000001 hPa

(at 50 °C)

Density (at 20 °C): 1,44 g/cm³
Relative vapour density: not determined

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate: not determined Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 8 of 13

CAS No	Chemical name	Chemical name				
	Exposure route	Dose		Species	Source	Method
52125-53-8	1,2-Propanediol, monoel	thyl ether				
	oral	LD50 mg/kg	>5001	Rat		
	dermal	LD50 mg/kg	2001	Rat		
64-17-5	ethanol; ethyl alcohol					
	oral	LD50 mg/kg	6200	Rat	IUCLID	
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS	
67-64-1	acetone; propan-2-one;	propanone				
	oral	LD50 mg/kg	5800	Rat	RTECS	
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50	76 mg/l	Rat		

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (1,2-Propanediol, monoethyl ether)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

Very toxic to aquatic life with long lasting effects.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 9 of 13

CAS No	Chemical name	Chemical name					
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7440-22-4	silver						
	Acute fish toxicity	LC50 mg/l	0,016	96 h	Pimepahles promelas	SDB	Durchflusstest
64-17-5	ethanol; ethyl alcohol						
	Acute crustacea toxicity	EC50 14221 mg/l	9268 -	48 h	Daphnia magna	IUCLID	
67-64-1	acetone; propan-2-one; p	ropanone					
	Acute fish toxicity	LC50 mg/l	5540	96 h	Oncorhynchus mykiss		
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,31
67-64-1	acetone; propan-2-one; propanone	-0,24

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

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

The product has not been tested.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.(ethanol; ethyl alcohol/Aceton)



according to Regulation (EC) No 1907/2006

LS200N Revision date: 03.05.2023 Product code: LS200N Page 10 of 13

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.(ethanol; ethyl alcohol/Aceton)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640C

Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.(ethanol; ethyl alcohol/acetone)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S.(ethanol; ethyl alcohol/acetone)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A3
Limited quantity Passenger: 1 L
Passenger LQ: Y341



Safety Data Sheet

according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 11 of 13

Excepted quantity: E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



14.6. Special precautions for user

Warning: Combustible liquid.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): 22,4 % (322,56 g/l) 2004/42/EC (VOC): 22,4 % (322,56 g/l)

Information according to 2012/18/EU E1 Hazardous to the Aquatic Environment

(SEVESO III):

Additional information: P5c

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant

disappearances and thefts should be reported to the relevant national contact point.

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,12.



according to Regulation (EC) No 1907/2006

LS200N

Revision date: 03.05.2023 Product code: LS200N Page 12 of 13

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Flam. Liq: Flammable liquid Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.



according to Regulation (EC) No 1907/2006

	LS200N	
Revision date: 03.05.2023	Product code: LS200N	Page 13 of 13
H226	Flammable liquid and vanour	

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)