Classification and labelling information of the lead registrant

Substance name: Silver - LR Dossier - FOR REFERENCE ONLY

Public name of substance: Silver

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1. Classification and labelling information of the lead registrant for use by the pre-SIEF 1

1. Classification and labelling information of the lead registrant for use by the pre-SIEF

Substance identity	Hazard classification and labelling
EC name: silver EC number: 231-131-3 CAS number: 7440-22-4 Molecular formula: Ag	GHS name: Silver >= 99,9 % Ag in massive form (> 1 mm) with no classified impurities - not classified (not classified) Implementation: EU For the linked composition: GENERIC - Silver >= 99,9 % Ag in massive form (> 1 mm) with no classified impurities - not classified the registrant has NOT indicated that the substance classification is affected by impurities or additives
Structural formula:	Signal word: No signal word
Ag	
Labelling	

Table 1.1.

Classification and labelling according to CLP / GHS for physical hazards			
Hazard class	Hazard category	Hazard statement	Reason for no classification
Explosives:			data conclusive but not sufficient for classification
Desensitised explosives:			data lacking
Flammable gases and chemically unstable gases:			data conclusive but not sufficient for classification
Flammable aerosols:			data conclusive but not sufficient for classification
Oxidising gases:			data conclusive but not sufficient for classification

Acute toxicity - oral:			data conclusive but not sufficient for classification
Hazard class	Hazard category	Hazard statement	Reason for no classification
Classification and labelli			D
Corrosive to metals:		(2)(2)(1)	data conclusive but not sufficient for classification
Organic peroxides:			data conclusive but not sufficient for classification
Oxidising solids:			data conclusive but not sufficient for classification
Oxidising liquids:			data conclusive but not sufficient for classification
Substances and mixtures which in contact with water emit flammable gases:			data conclusive but not sufficient for classification
Self-heating substances and mixtures:			data conclusive but not sufficient for classification
Pyrophoric solids:			data conclusive but not sufficient for classification
Pyrophoric liquids:			data conclusive but not sufficient for classification
Self-reactive substances and mixtures:			data conclusive but not sufficient for classification
Flammable solids:			data conclusive but not sufficient for classification
Flammable liquids:			data conclusive but not sufficient for classification
Gases under pressure:			data conclusive but not sufficient for classification

Acute toxicity - dermal:			data conclusive but not sufficient for classification	
Acute toxicity - inhalation:			data conclusive but not sufficient for classification	
Skin corrosion / irritation:			data conclusive but not sufficient for classification	
Serious damage / eye irritation:			data conclusive but not sufficient for classification	
Respiratory sensitisation:			data conclusive but not sufficient for classification	
Skin sensitisation:			data conclusive but not sufficient for classification	
Aspiration hazard:			data conclusive but not sufficient for classification	
Reproductive Toxicity:			data lacking	
Reproductive Toxicity: Effects on or via lactation:			data lacking	
Germ cell mutagenicity:			data conclusive but not sufficient for classification	
Carcinogenicity:			data lacking	
Specific target organ toxicity – single exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification	
Specific target organ toxicity – repeated exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification	
Specific concentration limits:				
Classification and labelling according to CLP / GHS for environmental hazards				
Hazard class	Hazard category	Hazard statement	Reason for no classification	
Hazards to the aquatic environment (acute/short-term):			data conclusive but not sufficient for classification	

Hazards to the aquatic environment (chronic/ long-term):	data conclusive but not sufficient for classification
M-Factor acute:	
M-Factor chronic:	
Hazardous to the ozone layer:	data conclusive but not sufficient for classification

Substance identity	Hazard classification and labelling
EC name: silver EC number: 231-131-3 CAS number: 7440-22-4 Molecular formula: Ag	GHS name: Silver < 99,9% Ag in massive form (> 1 mm) with no classified impurities - not classified (not classified) Implementation: EU For the linked composition: GENERIC - Silver < 99,9% Ag in massive form (> 1 mm) with no classified impurities - not classified the registrant has NOT indicated that the substance classification is affected by impurities or additives
Structural formula:	Signal word: No signal word
Ag	
Labelling	

Table 1.2.

Classification and labelling according to CLP / GHS for physical hazards				
Hazard class	Hazard category	Hazard statement	Reason for no classification	
Explosives:			data conclusive but not sufficient for classification	
Desensitised explosives:			data lacking	
Flammable gases and chemically unstable gases:			data conclusive but not sufficient for classification	

Flammable aerosols:	data conclusive but not sufficient for classification
Oxidising gases:	data conclusive but not sufficient for classification
Gases under pressure:	data conclusive but not sufficient for classification
Flammable liquids:	data conclusive but not sufficient for classification
Flammable solids:	data conclusive but not sufficient for classification
Self-reactive substances and mixtures:	data conclusive but not sufficient for classification
Pyrophoric liquids:	data conclusive but not sufficient for classification
Pyrophoric solids:	data conclusive but not sufficient for classification
Self-heating substances and mixtures:	data conclusive but not sufficient for classification
Substances and mixtures which in contact with water emit flammable gases:	data conclusive but not sufficient for classification
Oxidising liquids:	data conclusive but not sufficient for classification
Oxidising solids:	data conclusive but not sufficient for classification
Organic peroxides:	data conclusive but not sufficient for classification
Corrosive to metals:	data conclusive but not sufficient for classification
Classification and labelling according to CLF	/ GHS for health hazards

Hazard class	Hazard category	Hazard statement	Reason for no classification
Acute toxicity - oral:			data conclusive but not sufficient for classification
Acute toxicity - dermal:			data conclusive but not sufficient for classification
Acute toxicity - inhalation:			data conclusive but not sufficient for classification
Skin corrosion / irritation:			data conclusive but not sufficient for classification
Serious damage / eye irritation:			data conclusive but not sufficient for classification
Respiratory sensitisation:			data conclusive but not sufficient for classification
Skin sensitisation:			data conclusive but not sufficient for classification
Aspiration hazard:			data conclusive but not sufficient for classification
Reproductive Toxicity:			data lacking
Reproductive Toxicity: Effects on or via lactation:			data lacking
Germ cell mutagenicity:			data conclusive but not sufficient for classification
Carcinogenicity:			data lacking
Specific target organ toxicity – single exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification
Specific target organ toxicity – repeated exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification
Specific concentration li	mits:		
Classification and labelli	ng according to CLP /	GHS for environmental ha	azards
Hazard class	Hazard category	Hazard statement	Reason for no classification

Hazards to the aquatic environment (acute/short-term):	data conclusive but not sufficient for classification
Hazards to the aquatic environment (chronic/ long-term):	data conclusive but not sufficient for classification
M-Factor acute:	
M-Factor chronic:	
Hazardous to the ozone layer:	data conclusive but not sufficient for classification

Substance identity

EC name: silver

EC number: 231-131-3 **CAS number:** 7440-22-4 Molecular formula: Ag

Hazard classification and labelling

GHS name: Silver >= 99,9 % Ag in powder form (< 1 mm but which does not fulfil the EU definition of nanomaterial) with no

classified impurities - classified for environment

(classified)

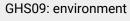
Implementation: EU

For the linked composition: GENERIC - Silver >= 99,9 % Ag in powder form (< 1 mm but which does not fulfil the EU definition of nanomaterial) with no classified impurities - classified for environment the registrant has NOT indicated that the substance

classification is affected by impurities or additives

Structural formula:

Ag





Signal word: Warning

Labelling

Hazard statements:

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to ...

Table 1.3.

Classification and labelling according to CLP / GHS for physical hazards

Hazard class	Hazard category	Hazard statement	Reason for no classification
Explosives:			data conclusive but not sufficient for classification
Desensitised explosives:			data lacking
Flammable gases and chemically unstable gases:			data conclusive but not sufficient for classification
Flammable aerosols:			data conclusive but not sufficient for classification
Oxidising gases:			data conclusive but not sufficient for classification
Gases under pressure:			data conclusive but not sufficient for classification
Flammable liquids:			data conclusive but not sufficient for classification
Flammable solids:			data conclusive but not sufficient for classification
Self-reactive substances and mixtures:			data conclusive but not sufficient for classification
Pyrophoric liquids:			data conclusive but not sufficient for classification
Pyrophoric solids:			data conclusive but not sufficient for classification
Self-heating substances and mixtures:			data conclusive but not sufficient for classification
Substances and mixtures which in contact with water emit flammable gases:			data conclusive but not sufficient for classification
Oxidising liquids:			data conclusive but not sufficient for classification

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Oxidising solids:			data conclusive but not sufficient for classification
Organic peroxides:			data conclusive but not sufficient for classification
Corrosive to metals:			data conclusive but not sufficient for classification
Classification and labelli	ng according to CLP / G	HS for health hazards	
Hazard class	Hazard category	Hazard statement	Reason for no classification
Acute toxicity - oral:			data conclusive but not sufficient for classification
Acute toxicity - dermal:			data conclusive but not sufficient for classification
Acute toxicity - inhalation:			data conclusive but not sufficient for classification
Skin corrosion / irritation:			data conclusive but not sufficient for classification
Serious damage / eye irritation:			data conclusive but not sufficient for classification
Respiratory sensitisation:			data conclusive but not sufficient for classification
Skin sensitisation:			data conclusive but not sufficient for classification
Aspiration hazard:			data conclusive but not sufficient for classification
Reproductive Toxicity:			data lacking
Reproductive Toxicity: Effects on or via lactation:			data lacking
Germ cell mutagenicity:			data conclusive but not sufficient for classification
Carcinogenicity:			data lacking

Specific target organ toxicity – single exposure:	Affected organs: Route of exposure:	data conclusive but not sufficient for classification
Specific target organ toxicity – repeated exposure:	Affected organs: Route of exposure:	data conclusive but not sufficient for classification

Specific concentration limits:

Classification and labelling according to CLP / GHS for environmental hazards

Hazards to the aquatic environment (acute/short-term): Hazards to the aquatic environment (chronic/ environme	Hazard class	Hazard category	Hazard statement	Reason for no classification
environment (chronic/ life with long lasting	environment (acute/	Aquatic Acute 1		
long-term): effects.	•	Aquatic Chronic 1		

M-Factor acute: 10 M-Factor chronic: 10

Hazardous to the ozone layer: data conclusive but not sufficient for classification

Substance identity

EC name: silver

EC number: 231-131-3 **CAS number:** 7440-22-4

Molecular formula: Ag

Hazard classification and labelling

GHS name: Silver < 99,9% Ag in powder form (< 1 mm but which does not fulfil the EU definition of nanomaterial) with no

classified impurities - classified for environment

(classified)

Implementation: EU

For the linked composition: GENERIC - Silver < 99,9% Ag in powder form (< 1 mm but which does not fulfil the EU definition of nanomaterial) with no classified impurities - classified for environment the registrant has NOT indicated that the substance

classification is affected by impurities or additives

Structural formula:

Ag

GHS09: environment



Signal word: Warning

Labelling

Hazard statements:

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to ...

Table 1.4.

Hazard class	Hazard category	Hazard statement	Reason for no classification
Explosives:			data conclusive but not sufficient for classification
Desensitised explosives:			data lacking
Flammable gases and chemically unstable gases:			data conclusive but not sufficient for classification
Flammable aerosols:			data conclusive but not sufficient for classification
Oxidising gases:			data conclusive but not sufficient for classification
Gases under pressure:			data conclusive but not sufficient for classification
Flammable liquids:			data conclusive but not sufficient for classification
Flammable solids:			data conclusive but not sufficient for classification
Self-reactive substances and mixtures:			data conclusive but not sufficient for classification
Pyrophoric liquids:			data conclusive but not sufficient for classification
Pyrophoric solids:			data conclusive but not sufficient for classification

Self-heating substances and mixtures:			data conclusive but not sufficient for
			classification
Substances and mixtures which in contact with water emit flammable gases:			data conclusive but not sufficient for classification
Oxidising liquids:			data conclusive but not sufficient for classification
Oxidising solids:			data conclusive but not sufficient for classification
Organic peroxides:			data conclusive but not sufficient for classification
Corrosive to metals:			data conclusive but not sufficient for classification
Classification and labelling	ng according to CLP /	GHS for health hazards	
Hazard class	Hazard category	Hazard statement	Reason for no classification
Acute toxicity - oral:			data conclusive but not sufficient for classification
Acute toxicity - dermal:			data conclusive but not sufficient for classification
Acute toxicity - inhalation:			data conclusive but not sufficient for classification
Skin corrosion / irritation:			data conclusive but not sufficient for classification
Serious damage / eye irritation:			data conclusive but not sufficient for classification
Respiratory sensitisation:			data conclusive but not sufficient for classification
Skin sensitisation:			data conclusive but not sufficient for classification

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Aspiration hazard:			data conclusive but
			not sufficient for
			classification
Reproductive Toxicity:			data lacking
Reproductive Toxicity:			data lacking
Effects on or via			
lactation:			
Germ cell mutagenicity:			data conclusive but
			not sufficient for
			classification
Carcinogenicity:			data lacking
Specific target organ	Affected organs:		data conclusive but
toxicity - single	Route of exposure:		not sufficient for
exposure:			classification
Specific target organ	Affected organs:		data conclusive but
toxicity - repeated	Route of exposure:		not sufficient for
exposure:	·		classification
Specific concentration li	mits:		
Classification and labelli	ng according to CLP / 0	GHS for environmental hazard	ls
Hazard class	Hazard category	Hazard statement	Reason for no classification
Hazards to the aquatic	Aquatic Acute 1	H400: Very toxic to aquatic	
environment (acute/		life.	
short-term):			
Hazards to the aquatic	Aquatic Chronic 1	H410: Very toxic to aquatic	
environment (chronic/		life with long lasting	
long-term):		effects.	
M-Factor acute: 10			
M-Factor chronic: 10			
Hazardous to the ozone			data conclusive but
layer:			not sufficient for
			classification

Substance identity Hazard classification and labelling

EC name: silver

EC number: 231-131-3 **CAS number:** 7440-22-4

Molecular formula: Ag

GHS name: Silver >= 99,9% Ag in nano form (median particle size <100 nm) with no classified impurities - classified for

environment (classified)

Implementation: EU

For the linked composition: <u>GENERIC - Silver >= 99.9% Ag in</u> nano form (median particle size <100 nm) with no classified impurities - classified for environment the registrant has NOT indicated that the substance classification is affected by

impurities or additives

Structural formula:

GHS09: environment



Ag

Signal word: Warning

Labelling

Hazard statements:

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to ...

Table 1.5.

Classification and labelling according to CLP / GHS for physical hazards			
Hazard class	Hazard category	Hazard statement	Reason for no classification
Explosives:			data conclusive but not sufficient for classification
Desensitised explosives:			data lacking
Flammable gases and chemically unstable gases:			data conclusive but not sufficient for classification
Flammable aerosols:			data conclusive but not sufficient for classification
Oxidising gases:			data conclusive but not sufficient for classification
Gases under pressure:			data conclusive but not sufficient for classification
Flammable liquids:			data conclusive but not sufficient for classification

Flammable solids:			data conclusive but not sufficient for classification
Self-reactive substances and mixtures:			data conclusive but not sufficient for classification
Pyrophoric liquids:			data conclusive but not sufficient for classification
Pyrophoric solids:			data conclusive but not sufficient for classification
Self-heating substances and mixtures:			data conclusive but not sufficient for classification
Substances and mixtures which in contact with water emit flammable gases:			data conclusive but not sufficient for classification
Oxidising liquids:			data conclusive but not sufficient for classification
Oxidising solids:			data conclusive but not sufficient for classification
Organic peroxides:			data conclusive but not sufficient for classification
Corrosive to metals:			data conclusive but not sufficient for classification
Classification and labelli	ng according to CLP / G	GHS for health hazards	
Hazard class	Hazard category	Hazard statement	Reason for no classification
Acute toxicity - oral:			data conclusive but not sufficient for classification
Acute toxicity - dermal:			data conclusive but not sufficient for classification
Acute toxicity - inhalation:			data conclusive but not sufficient for classification

M-Factor chronic: 100			
M-Factor acute: 1000			
Hazards to the aquatic environment (chronic/long-term):	Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.	
Hazards to the aquatic environment (acute/short-term):	Aquatic Acute 1	H400: Very toxic to aquatic life.	
Hazard class	Hazard category	Hazard statement	Reason for no classification
Classification and labelli	ng according to CLP / 0	GHS for environmental hazard	s
Specific concentration li	mits:		
Specific target organ toxicity – repeated exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification
Specific target organ toxicity – single exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification
Carcinogenicity:			data lacking
Germ cell mutagenicity:			data conclusive but not sufficient for classification
Reproductive Toxicity: Effects on or via lactation:			data lacking
Reproductive Toxicity:			data lacking
Aspiration hazard:			data conclusive but not sufficient for classification
Skin sensitisation:			data conclusive but not sufficient for classification
Respiratory sensitisation:			data conclusive but not sufficient for classification
Serious damage / eye irritation:			data conclusive but not sufficient for classification
Skin corrosion / irritation:			data conclusive but not sufficient for classification

Hazardous to the ozone		data conclusive but
layer:		not sufficient for
		classification

Substance identity Hazard classification and labelling

EC name: silver GHS name: Silver < 99,9% Ag in nano form (median particle **EC number:** 231-131-3 size <100 nm) with no classified impurities - classified for

CAS number: 7440-22-4 environment **Molecular formula:** Ag (classified)

Implementation: EU

For the linked composition: <u>GENERIC - Silver < 99,9% Ag in</u> nano form (median particle size <100 nm) with no classified impurities - classified for environment the registrant has NOT indicated that the substance classification is affected by

impurities or additives

Structural formula: GHS09: environment

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Signal word: Warning

Ag

Labelling

Hazard statements:

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.

P391: Collect spillage.

P501: Dispose of contents/container to ...

Table 1.6.

Classification and labelling according to CLP / GHS for physical hazards			
Hazard class	Hazard category	Hazard statement	Reason for no classification
Explosives:			data conclusive but not sufficient for classification
Desensitised explosives:			data lacking

Flammable gases and chemically unstable gases:	data conclusive but not sufficient for classification
Flammable aerosols:	data conclusive but not sufficient for classification
Oxidising gases:	data conclusive but not sufficient for classification
Gases under pressure:	data conclusive but not sufficient for classification
Flammable liquids:	data conclusive but not sufficient for classification
Flammable solids:	data conclusive but not sufficient for classification
Self-reactive substances and mixtures:	data conclusive but not sufficient for classification
Pyrophoric liquids:	data conclusive but not sufficient for classification
Pyrophoric solids:	data conclusive but not sufficient for classification
Self-heating substances and mixtures:	data conclusive but not sufficient for classification
Substances and mixtures which in contact with water emit flammable gases:	data conclusive but not sufficient for classification
Oxidising liquids:	data conclusive but not sufficient for classification
Oxidising solids:	data conclusive but not sufficient for classification
Organic peroxides:	data conclusive but not sufficient for classification

Corrosive to metals:			data conclusive but not sufficient for classification
Classification and labelli	ng according to CLP /	GHS for health hazards	
Hazard class	Hazard category	Hazard statement	Reason for no classification
Acute toxicity - oral:			data conclusive but not sufficient for classification
Acute toxicity - dermal:			data conclusive but not sufficient for classification
Acute toxicity - inhalation:			data conclusive but not sufficient for classification
Skin corrosion / irritation:			data conclusive but not sufficient for classification
Serious damage / eye irritation:			data conclusive but not sufficient for classification
Respiratory sensitisation:			data conclusive but not sufficient for classification
Skin sensitisation:			data conclusive but not sufficient for classification
Aspiration hazard:			data conclusive but not sufficient for classification
Reproductive Toxicity:			data lacking
Reproductive Toxicity: Effects on or via lactation:			data lacking
Germ cell mutagenicity:			data conclusive but not sufficient for classification
Carcinogenicity:			data lacking
Specific target organ toxicity – single exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification
Specific target organ toxicity – repeated exposure:	Affected organs: Route of exposure:		data conclusive but not sufficient for classification

Specific concentration limits:					
Classification and labelling according to CLP / GHS for environmental hazards					
Hazard class	Hazard category	Hazard statement	Reason for no classification		
Hazards to the aquatic environment (acute/short-term):	Aquatic Acute 1	H400: Very toxic to aquatic life.			
Hazards to the aquatic environment (chronic/long-term):	Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.			
M-Factor acute: 1000					
M-Factor chronic: 100					
Hazardous to the ozone layer:			data conclusive but not sufficient for classification		