

## Slag

Version number: 1.0

First version: 2023-01-19

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

#### 1.1 Product identifier

**Trade name**

**Slag**

**Product number**

FLX-141, FLX-SL 07b, FLX-SL 8b, FLX-SL 09, FLX-SL 12, FLX-SL 13, FLX-SL 14, FLX-SL 15, FLX-SL 16c, FLXSL 17a, FLX-SL 18, FLX-SL 19, FLX-SL 20, FLX-SL 21, FLX-SL 22, FLX-SL 23, FLX-SL 24b, FLX-SL 25a, FLX-SL 26a, FLX-SL 27a, FLX-RAW 03a, GQB-03, GQB2-03

**Registration number (REACH)**

Not relevant (mixture)

**CAS number**

Not relevant (mixture)

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

**Relevant identified uses**

Laboratory and analytical use

#### 1.3 Details of the supplier of the safety data sheet

FLUXANA® GmbH & Co. KG  
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**e-mail (competent person)**

[sdb@csb-compliance.com](mailto:sdb@csb-compliance.com)

Please do not use this e-mail address to ask for the latest safety data sheet. For this purpose contact FLUXANA® GmbH & Co. KG.

#### 1.4 Emergency telephone number

As above or nearest toxicological information centre.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

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Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335

For full text of abbreviations: see SECTION 16

## 2.2 Label elements

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

**Signal word** danger

### Pictograms

GHS05, GHS07



### Hazard statements

**H315** Causes skin irritation.  
**H318** Causes serious eye damage.  
**H335** May cause respiratory irritation.

### Precautionary statements

**P261** Avoid breathing dust.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P302+P352** IF ON SKIN: Wash with plenty of soap and water.  
**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/doctor.

**Hazardous ingredients for labelling** calcium oxide

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### Endocrine disrupting properties

None of the ingredients are listed.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

#### Description of the mixture

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
calcium oxide	CAS No 1305-78-8  EC No 215-138-9	0.5 – 50	Skin Irrit. 2 / H315 Eye Dam. 1 / H318 STOT SE 3 / H335	 	IOELV
manganese oxide	CAS No 1344-43-0  EC No 215-695-8	≤ 3.5	-	-	IOELV

#### Notes

IOELV: Substance with a community indicative occupational exposure limit value

for full text of H-phrases: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Self-protection of the first aider.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

In case of respiratory tract irritation, consult a physician.

#### Following skin contact

Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

#### Following eye contact

Rinse cautiously with water for several minutes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove contact lenses, if present and easy to do. Continue rinsing.

## Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Get medical advice/attention.

## Notes for the doctor

None.

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

Cough, pain, choking, and breathing difficulties.

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

None.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

non-combustible, Co-ordinate firefighting measures to the fire surroundings

#### Unsuitable extinguishing media

water jet

### 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Co-ordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

Ventilate affected area.

Avoid contact with skin and eyes.

Do not breathe dust.

Control of dust.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

## **For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

## **6.2 Environmental precautions**

Keep away from drains, surface and ground water.  
Retain contaminated washing water and dispose of it.

## **6.3 Methods and material for containment and cleaning up**

### **Advice on how to contain a spill**

Take up mechanically.

### **Advice on how to clean up a spill**

Take up mechanically.  
Collect spillage.

### **Other information relating to spills and releases**

Place in appropriate containers for disposal.  
Ventilate affected area.

## **6.4 Reference to other sections**

Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

## **7.1 Precautions for safe handling**

Avoid contact with skin and eyes.  
Do not breathe dust.

### **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

### **Specific notes/details**

Dust deposits may accumulate on all deposition surfaces in a technical room.

### **Measures to protect the environment**

Avoid release to the environment.

### **Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.  
Wash hands after use.  
Preventive skin protection (barrier creams/ointments) is recommended.  
Remove contaminated clothing and protective equipment before entering eating areas.

## **7.2 Conditions for safe storage, including any incompatibilities**

### **Flammability hazards**

None.

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## Incompatible substances or mixtures

Incompatible materials: see section 10.

## Protect against external exposure, such as

heat

## Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

## Ventilation requirements

Provision of sufficient ventilation.

## Packaging compatibilities

Keep only in original container.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
EU	manganese, inorganic compounds	-	IOELV	-	0.05	-	-	r	2017/164/EU
EU	calcium oxide	1305-78-8	IOELV	-	1	-	4	r	2017/164/EU

#### Notation

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
calcium oxide	1305-78-8	DNEL	1 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
manganese oxide	1344-43-0	DNEL	0.2 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
manganese oxide	1344-43-0	DNEL	0.004 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
calcium oxide	1305-78-8	PNEC	0.37 mg/l	freshwater
calcium oxide	1305-78-8	PNEC	0.24 mg/l	marine water
calcium oxide	1305-78-8	PNEC	2.27 mg/l	sewage treatment plant (STP)
calcium oxide	1305-78-8	PNEC	817.4 mg/kg	soil
manganese oxide	1344-43-0	PNEC	0.008 mg/l	freshwater
manganese oxide	1344-43-0	PNEC	0.001 mg/l	marine water
manganese oxide	1344-43-0	PNEC	100 mg/l	sewage treatment plant (STP)
manganese oxide	1344-43-0	PNEC	8.18 mg/kg	freshwater sediment
manganese oxide	1344-43-0	PNEC	0.82 mg/kg	marine sediment
manganese oxide	1344-43-0	PNEC	8.15 mg/kg	soil

## 8.2 Exposure controls

### Appropriate engineering controls

Use local and general ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection. (EN 166).

#### Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
no information available	no information available	no information available

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particle filter device (DIN EN 143).

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## Environmental exposure controls

Use appropriate container to avoid environmental contamination.  
Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	solid (powder)
<b>Colour</b>	grey
<b>Odour</b>	characteristic
<b>Melting point/freezing point</b>	not determined
<b>Boiling point or initial boiling point and boiling range</b>	not determined
<b>Flammability</b>	non-combustible
<b>Lower and upper explosion limit</b>	not applicable (solid)
<b>Flash point</b>	not applicable
<b>Auto-ignition temperature</b>	not applicable (solid)
<b>Decomposition temperature</b>	not relevant
<b>pH (value)</b>	not applicable
<b>Viscosity</b>	not relevant (solid)
<b>Solubility(ies)</b>	
Water solubility	Insoluble
<b>Partition coefficient n-octanol/water (log value)</b>	not relevant (inorganic)
<b>Vapour pressure</b>	not determined
<b>Density and/or relative density</b>	
Density	not determined
Relative vapour density	not applicable
<b>Particle characteristics</b>	no data available

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## 9.2 Other information

**Information with regard to physical hazard classes**

hazard classes acc. to GHS (physical hazards):  
not relevant

**Other safety characteristics**

there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

## SECTION 11: Toxicological information

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

#### Classification procedure

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Test data are not available for the complete mixture.

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
calcium oxide	1305-78-8	oral	LD0	>2,000 mg/kg	rat, female	OECD Guideline 425	ECHA

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Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
calcium oxide	1305-78-8	inhalation: dust/ mist	LC50	>6.04 mg/l/4h	rat	OECD Guideline 436	ECHA
manganese oxide	1344-43-0	oral	LD50	>2,000 mg/kg	rat	OECD Guideline 420	ECHA
manganese oxide	1344-43-0	inhalation: dust/ mist	LC50	>5.35 mg/l/4h	rat	OECD Guideline 403	ECHA

## Skin corrosion/irritation

Causes skin irritation.

## Serious eye damage/eye irritation

Causes serious eye damage.

## Respiratory or skin sensitisation

### Skin sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Respiratory sensitisation

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Carcinogenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - single exposure

May cause respiratory irritation.

### Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

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## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

None of the ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Test data are not available for the complete mixture.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
calcium oxide	1305-78-8	LC50	96 h	50.6 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA
calcium oxide	1305-78-8	LC50	96 h	158 mg/l	Crustaceae (Crangon sp.)	-	ECHA
calcium oxide	1305-78-8	EC50	48 h	49.1 mg/l	daphnia magna	OECD Guideline 202	ECHA
calcium oxide	1305-78-8	ErC50	72 h	184.6 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
manganese oxide	1344-43-0	EC50	48 h	>4 mg/l	daphnia magna	OECD Guideline 202	ECHA
manganese oxide	1344-43-0	LC50	96 h	>1.2 mg/l	rainbow trout (Oncorhynchus mykiss)	OECD Guideline 203	ECHA

#### Aquatic toxicity (chronic)

Test data are not available for the complete mixture.

#### Aquatic toxicity (chronic) of components of the mixture

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Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Source
calcium oxide	1305-78-8	LC50	14 d	53.1 mg/l	Crustaceae (Crangon sp.)	-	ECHA
calcium oxide	1305-78-8	EC50	3 h	300.4 mg/l	Bacteria (activated sludge)	OECD Guideline 209	ECHA
calcium oxide	1305-78-8	NOEC	14 d	32 mg/l	Crustaceae (Crangon sp.)	-	ECHA
calcium oxide	1305-78-8	NOEC	72 h	48 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
calcium oxide	1305-78-8	LOEC	72 h	80 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
calcium oxide	1305-78-8	growth (Eb-Cx) 20%	3 h	229.2 mg/l	Bacteria (activated sludge)	OECD Guideline 209	ECHA
calcium oxide	1305-78-8	growth (Eb-Cx) 80%	3 h	393.9 mg/l	Bacteria (activated sludge)	OECD Guideline 209	ECHA
calcium oxide	1305-78-8	growth rate (ErCx) 10%	72 h	79.22 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
calcium oxide	1305-78-8	growth rate (ErCx) 20%	72 h	106.2 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA
manganese oxide	1344-43-0	EC50	8 d	2.5 mg/l	Ceriodaphnia dubia (water flea)	OECD Guideline 211	ECHA
manganese oxide	1344-43-0	NOEC	8 d	1.3 mg/l	Ceriodaphnia dubia (water flea)	OECD Guideline 211	ECHA
manganese oxide	1344-43-0	LOEC	8 d	4.1 mg/l	Ceriodaphnia dubia (water flea)	OECD Guideline 211	ECHA

## 12.2 Persistence and degradability

### Biodegradation

No data available.

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## Persistence

No data available.

### 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

**n-octanol/water (log KOW)**

not relevant  
(inorganic)

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### 12.7 Other adverse effects

Data are not available.

## Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled.  
Handle contaminated packages in the same way as the substance itself.

## Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

14.1	UN number or ID number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-

## 14.7 Maritime transport in bulk according to IMO - instruments

### SECTION 15: Regulatory information

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

##### Relevant provisions of the European Union (EU)

##### Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

##### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

##### Seveso Directive

Not assigned.

##### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

None of the ingredients are listed.

##### Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

##### Regulation on drug precursors

None of the ingredients are listed.

##### Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

##### Regulation concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

##### Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### SECTION 16: Other information

#### Abbreviations and acronyms

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Abbr.	Descriptions of used abbreviations
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration
NLP	No-Longer Polymer

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Abbr.	Descriptions of used abbreviations
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH).

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

## Responsible for the safety data sheet

## Slag

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### **Disclaimer**

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.