

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Silver with PGM

Product no.

E27000

REACH registration number

01-2119543724-37-0005 (UVCB)

Other means of identification

Dore-metal

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

Relevant identified uses of the substance or mixture

Use as an intermediate in metal manufacturing.

Use in closed, continuous process with occasional controlled exposure (PROC 2) (22, 8b 2008/533: 55)

Industrial uses: Uses of substances as such or in preparations* at industrial sites (SU 3) (14. 2008/533: 244)

Uses advised against

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1.3. Details of the supplier of the safety data sheet

Company and addressBoliden Commercial
Box 750
SE-101 35 Stockholm
Sweden

Tel +46 8 610 15 00

Fax +46 8 31 55 45

Contact person**E-mail**

info.market@boliden.com

SDS date

01-06-2015

SDS Version

1.0

1.4. Emergency telephone number

999 (or 111 for non-emergency medical advice). Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service). See section 16.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Repr. 1B; H360
Skin Sens. 1; H317

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

According to EC-Regulation 1907/2006 (REACH)



Signal word

Danger!

Hazard statement(s)

May damage fertility or the unborn child. (H360)
May cause an allergic skin reaction. (H317)

Safety statement(s)	General	-
	Prevention	Obtain special instructions before use. (P201). Do not handle until all safety precautions have been read and understood. (P202). Use personal protective equipment as required. (P281).
	Response	IF exposed or concerned: Get medical advice/attention. (P308+P313).
	Storage	Store locked up. (P405).
	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

Silver with PGM (Dore) is a UVCB substance, including: Silver, Copper, Tellurium, Lead, Selenium, Nickel.

2.3. Other hazards

This product contains substances which are considered or proven to be carcinogenic.
Inhalation of dust or smoke of silver may be hazardous.
Exposure to silver dust or smoke may cause a bluish or greyish pigmentation to the skin and eyes.
Harmful if swallowed.
May form explosive mixtures if dispersed in air as a fine powder.
May form explosive mixtures if stored with ammonia, acetylene or nitric acid. See section 10.

Additional labelling

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Additional warnings

-

VOC

-

SECTION 3: Composition/information on ingredients

3.1. Substances

NAME:	Dore
IDENTIFICATION NOS.:	CAS-no: 69029-47-6 EC-no: 273-793-6 REACH-no: 01-2119543724-37-0005
CONTENT:	100%
CLP CLASSIFICATION:	Skin Sens. 1, Repr. 1B H317, H360

3.2. Mixtures

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other informations

Silver with PGM (Dore) is a UVCB substance, including (name (EC/CAS), concentration): Silver (231-131-3/7440-22-4) 64%, Copper (231-159-6/13494-80-9) 13%, Tellurium (236-813-4/13494-80-9) 8%, Lead (231-100-4/7439-92-1) 4,4%, Gold (231-165-9/7440-57-5) 3,8%, Selenium (231-957-4/7782-49-2) 2,5%, Nickel (231-111-4/7440-02-0) 0,11%.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

According to EC-Regulation 1907/2006 (REACH)

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

Inhalation

Seek fresh air in case of inhalation of dust or fumes from overheated or smelted material. Seek medical advice if respiratory problems arise.

Skin contact

Skin that has come in contact with the material must be washed thoroughly with water and soap. Silver in form of finely divided dust may cause discoloration in contact with skin.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor.

Ingestion

If swallowed, no specific intervention is indicated, as this material is not likely to be hazardous by ingestion. However if irritation or discomfort occurs, obtain medical advice.

Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

Exposure to silver dust or smoke may cause a bluish or greyish pigmentation to the skin and eyes.

Reproductive toxicity: This product contains teratogenic substances which can do long-term damage to human offspring. The effects on the child can be: death, deformity, delayed development, and functional disorders.

Carcinogenic effects: This product contains substances which are considered or proven to be carcinogenic. The danger may lie in inhalation, skin contact or ingestion.

Reproductive toxicity: This product contains substances which can do damage to reproductive capacity, e.g. damage to germ cells or hormonal regulation. The effects can be: sterility, reduced fertility, menstruation disorders, etc.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials e.g. dry powder or carbon dioxide
DO NOT USE Water, because it expands explosively in contact with molten/liquid metal.

5.2. Special hazards arising from the substance or mixture

Not flammable. Fine dust or powder may be flammable or explosive in high concentrations exposed to heat, flame or other sources of ignition.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of vapours from waste material.

6.2. Environmental precautions

Do not let product enter water sources or drainage system.

6.3. Methods and material for containment and cleaning up

No special procedures are required for cleanup of spill of this material. Recover the product and place it in suitable container for reuse.

6.4. Reference to other sections

According to EC-Regulation 1907/2006 (REACH)

See section 13 with regard to the handling of waste. See section 8 for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See section 8 for information on personal protection. Avoid direct contact with the product. Avoid inhalation of fumes from heated/molten material. Avoid generation of dust

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

selenium

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Comments: Se and compounds, except hydrogen selenide (as Se)

lead

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,15 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Comments: Lead and inorganic compounds (as Pb)

Tellurium

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Comments: Tellurium & compounds, except H₂Te, (as Te)

copper

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,2/1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | -/2 mg/m³

Comments: Fume/dust

silver

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Nickel, inorganic compounds, water-insoluble (as Ni) (not Ni(CO)₄)

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,5 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Nickel, inorganic compounds, water-soluble (as Ni) (not Ni(CO)₄)

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,1 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

DNEL / PNEC

DNEL (lead): 40 µg/dL blood - Duration: Long term – Systemic effects - Workers - Remarks: Adult neurological function.

DNEL (lead): 10 µg/dL blood - Duration: Long term – Systemic effects - Workers - Remarks: Developmental effect on foetus of pregnant women.

PNEC (lead): 3.1 µg Pb/L (dissolved) - Exposure: Freshwater

PNEC (lead): 3.5 µg Pb/L (dissolved) - Exposure: Marine water

PNEC (lead): 174.0 mg Pb/kg dw - Exposure: Freshwater sediment

PNEC (lead): 41.0 mg Pb/kg dw (bioavailability correction) - Exposure: Freshwater sediment

PNEC (lead): 164.0 mg Pb/kg dw - Exposure: Marine water sediment

PNEC (lead): 212.0 mg Pb/kg dw - Exposure: Soil

PNEC (lead): 0.1 mg Pb/L - Exposure: Sewage Treatment Plant

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

According to EC-Regulation 1907/2006 (REACH)

General recommendations

Observe general occupational hygiene.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values.

Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values. Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible collect spillage during work.

Individual protection measures, such as personal protective equipment



Generally

Only CE-marked personal protection equipment should be used.

Respiratory Equipment

Use appropriate respiratory protection when airborne exposure limits are exceeded. Recommended filter type P3.

Skin protection

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

Hand protection

Use suitable protective gloves when generating particles or dust.

Eye protection

Wear safety glasses, when generating particles or dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm ³)
Solid, granules	-	None	-	-	-

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-	-

Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

Solubility

Solubility in water	n-octanol/water coefficient
Insoluble	-

9.2. Other information

Solubility in fat	Additional information
-	N/A

SECTION 10: Stability and reactivity

10.1. Reactivity

According to EC-Regulation 1907/2006 (REACH)

The product is stable under normal conditions of use. See section 10.3.

10.2. Chemical stability

The product is stable under the conditions noted in section 7. See section 10.3.

10.3. Possibility of hazardous reactions

Can act as a catalyst for the decomposition of hydrogen peroxide.

Can react violently with nitric acid in the presence of ethanol.

Reacts with chlorotrifluoride and ethylene amine

Flammable in the form of dust when exposed to flame or by chemical reaction with C₂H₂, NH₃ bromazide, ClF₃, ethylenimine, H₂O₂, oxalic acid, H₂SO₄, tartaric acid.

10.4. Conditions to avoid

See section 10.3.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents. See section 10.3.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
Nickel	Rat	LD50	Oral	>5000 mg/kg body weight
selenium	Rat	LD50	Oral	>5000 mg/kg bw
selenium	Rat	LC50	Inhalation	>5,67 mg/l, 4h
Silver	Rat	LD50	Ingestion	>2000 mg/kg body weight
Silver	Mouse	LD50	Ingestion	>10000 mg/kg

Skin corrosion/irritation

No data

Serious eye damage/irritation

No data

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No data

Carcinogenicity

No data

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

No data

STOT-repeated exposure

No data

Aspiration hazard

No data

Long term effects

Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Repeated long-term exposure to silver dust or fumes can gradually cause eyes, nail, internal organs and skin to turn a blue-grey colour.

Reproductive toxicity: This product contains teratogenic substances which can do long-term damage to human offspring. The effects on the child can be: death, deformity, delayed development, and functional disorders.

Reproductive toxicity: This product contains substances which can do damage to reproductive capacity, e.g. damage to germ cells or hormonal regulation. The effects can be: sterility, reduced fertility, menstruation disorders, etc.

Carcinogenic effects: This product contains substances which are considered or proven to be carcinogenic. The danger may lie in inhalation, skin contact or ingestion.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin.

The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a

According to EC-Regulation 1907/2006 (REACH)

foreign body and will try to destroy it.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Test duration	Result
nickel	Fish	LC50	96h	>100 mg/l
	Daphnia	EC50	48h	>100 mg/l
	Algae	IC50	72h	0.18 mg/l
lead	Fish: Pimephales promelas, Oncorhynchus mykiss	LC50	96 h	pH 5.5 – 6.5: 40.8 – 810.0 µg Pb/L
	Fish: Pimephales promelas, Oncorhynchus mykiss	LC50	96 h	pH >6.5 – 7.5: 52.0 – 3,598.0 µg Pb/L
	Fish: Pimephales promelas, Oncorhynchus mykiss	LC50	96 h	pH > 7.5 – 8.5: 113.8 – 3,249.0 µg Pb/L
	Invertebrates: Daphnia magna, Ceriodaphnia dubia	LC50	48 h	pH 5.5 – 6.5: 73.6 – 655.6 µg Pb/L
	Invertebrates: Daphnia magna, Ceriodaphnia dubia	LC50	48 h	pH >6.5 – 7.5: 28.8 – 1,179.6 µg Pb/L
	Invertebrates: Daphnia magna, Ceriodaphnia dubia	LC50	48 h	pH > 7.5 – 8.5: 26.4 – 3,115.8 µg Pb/L
	Algae: Pseudok. subcapitata, Chlorella kesslerii	ErC50	72 h	pH 5.5 – 6.5: 72.0 – 388.0 µg Pb/L
	Algae: Pseudok. subcapitata, Chlorella kesslerii	ErC50	72 h	pH >6.5 – 7.5: 26.6 – 79.5 µg Pb/L
	Algae: Pseudok. subcapitata, Chlorella kesslerii	ErC50	72 h	pH > 7.5 – 8.5: 20.5 – 49.6 µg Pb/L
	Freshwater fish (different species)	EC10		17.8 – 1558.6 µg Pb/L
	Freshwater invertebrates (different species)	EC10		1.7 – 963.0 µg Pb/L
	Freshwater algae (different species)	EC10		6.1 – 190.0 µg Pb/L
	Freshwater higher plants: Lemna minor	EC10		85.0 – 1,025.0 µg Pb/L
	Marine fish: Cyprinodon variegatus	EC10		229.6 – 437.0 µg Pb/L
	Marine invertebrates (different species)	EC10		9.2 – 1409.6 µg Pb/L
	Marine algae (different species)	EC10		52.9 – 1234.0 µg Pb/L
	Marine higher plants: Champia parvula	EC10		11.9 µg Pb/L
	Freshwater sediment invertebrates (diff. species)	EC10		573.0 – 3,390.0 mg Pb/kg dw
	Marine sediment invertebrates (diff. species)	EC10		680.0 – 1,291.0 mg Pb/kg dw
	Terrestrial invertebrates (different species)	EC10		34.0 – 2,445.0 mg Pb/kg dw
	Terrestrial plants (different species)	EC10		57.0 – 6,774.0 mg Pb/kg dw
	Micro-organisms (different species)	EC10		97.0 – 7,880.0 mg Pb/kg dw
	Bacterial populations	EC10		Resp. 1.06 - 2.92 mg Pb/L
Bacterial populations	EC10		Ammonia uptake 2.79 - 9.59 mg Pb/L	
Protozoan community	EC10		Mortality: 1.0 – 7.0 mg Pb/L	
selenium	Fish (Oncorhynchus mykiss)	LC50 (440/2008/EC C.1.)	96 h	26,2 µg/l
	Fish (Oncorhynchus mykiss)	NOEC (OECD 215)		1,57 µg/l
	Daphnia Magna	EC50 (OECD 202)	48 h	160,3 µg/l
	Daphnia Magna	NOEC (OECD 211)		3,42 µg/l
	Algae	EC50 (OECD 201)	72 h	1,73 µg/l
	Algae	EC10 (OECD 201)		0,547 µg/l
silver	Fish	LC50	96h	0.0062mg/l
	Daphnia	LC50	48h	0.0006 mg/l
	Algae	LC50	72h	0.002 mg/l
copper	Fish (Oncorhynchus mykiss)	LC50	96h	0,017 mg/l
	Daphnia (hyalina)	EC50	48h	0,0065 mg/l
	Algae (Selenastrum capricornutum)	IC50	72h	0,392 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Gold	No	No data available	No data available
lead	No	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
Gold	No	No data available	No data available

12.4. Mobility in soil

The product (granules) is insoluble in water, but fine powder and some silver compounds can be highly soluble in water.

12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB substance.

12.6. Other adverse effects

According to EC-Regulation 1907/2006 (REACH)

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

Silver ions are environmentally harmful. High toxic effects have been observed at low concentrations.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

The generation of waste should be avoided or minimized wherever possible. The transportation, storage, treatment, and disposal of waste material must be conducted in compliance with all applicable local/national authority regulations.

This product is recyclable. Consideration of disposal via this route should be given.

Waste

EWC code

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Specific labelling

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Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

14.1 – 14.4

ADR/RID

14.1. UN number	3288
14.2. UN proper shipping name	TOXIC SOLID, INORGANIC, N.O.S. (Silver with PGM)
14.3. Transport hazard class(es)	6.1
14.4. Packing group	III
Notes	-
Tunnel restriction code	E

IMDG

UN-no.	3288
Proper Shipping Name	TOXIC SOLID, INORGANIC, N.O.S. (Silver with PGM)
Class	6.1
PG*	III
EmS	F-A, S-A
MP**	No
Hazardous constituent	-

IATA/ICAO

UN-no.	
Proper Shipping Name	
Class	
PG*	

14.5. Environmental hazards

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

14.6. Special precautions for user

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

According to EC-Regulation 1907/2006 (REACH)

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

Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC. Only for industrial use. Pregnant and nursing women must not be exposed to the effects of this product. The risk, and possible technical precautions or design of the workplace to avoid such risk, must therefore be evaluated.

Demands for specific education

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Additional information

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Sources

EC regulation 1907/2006 (REACH)
Directive 2000/532/EC
EC Regulation 1272/2008 (CLP)
EH40/2005

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H301 - Toxic if swallowed.
H317 - May cause an allergic skin reaction.
H331 - Toxic if inhaled.
H332 - Harmful if inhaled.
H351 - Suspected of causing cancer.
H360 - May damage fertility or the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.
H373 - May cause damage to organs through prolonged or repeated exposure.
H413 - May cause long lasting harmful effects to aquatic life.

The full text of identified uses as mentioned in section 1

PROC 2 = Use in closed, continuous process with occasional controlled exposure.
SU 3 = Industrial uses: Uses of substances as such or in preparations* at industrial sites.

Other symbols mentioned in section 2

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Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

Emergency numbers

According to EC-Regulation 1907/2006 (REACH)

Austria: Poison Control Centre Emergency helpline +43 1 406 43 43, 112
Belgium: 070 - 245 245
Bulgaria: +359 2 9154 409
Czech Republic: Toxikologické informační středisko Telefon: +420 224 919 293, +420 224 915 402
Denmark: Kontakt Giftlinien på tlf.nr.: 82 12 12 12 (åbent 24 timer i døgnet).
Estonia: 112, 16662, ((+372) 626 93 90)
Finland: 09-4711/Myrkytystietokeskus tai suora numero 09-471977 Myrkytystietokeskus/HUS, Tukholmankatu 17, 00029 HUS (Helsinki) 112
France: ORFILA (INRS) : + 33 (0)1 45 42 59 59. 24 heures sur 24 et 7 jours sur 7
Germany: Giftnotruf Berlin, Emergency telephone: +49 30 19240 (Tag und Nacht)
Greece: +30 10 779 3777
Hungary: Telefon: 06-80-20-11-99
Iceland: Neyðarlínan: Sími 112. Eitrunarmiðstöð Landsspítalans. Sími: 543 2222.
Ireland: +353 1 8379964
Italy: Centro antiveleni di Roma - Policlinico Umberto I tel. 06-49978000
Latvia: +371 704 2468
Lithuania: Visuomenės sveikatos centrams +370 5 236 20 52 arba +370 687 53378
Malta: 2425 0000
Netherlands: 30-2748888
Norway: Giftinformasjonssentralen på tlf.nr.: 22 59 13 00, 113
Poland: +48 58301 65 16 / +48 58 349 2831
Portugal: Em caso de intoxicacao, ligue 808 250 143
Romania: +40 21 3183606
Slovakia: +421 2 54 77 4166
Slovenia: + 386 41 650500
Spain: Servicio de Información Toxicológica Teléfono: + 34 91 562 04 20 (solo emergencias toxicológicas) Información en español (24h/365 días)
Sweden: 112, 08-331231 (vardagar kl 9-17)
United Kingdom: 999 (or 111 for non-emergency medical advice). Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service)

**Date of last essential change
(First cipher in SDS version)**

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**Date of last minor change
(Last cipher in SDS version)**

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