

**Pelikan Hardcopy Production AG**

8620 Wetzikon

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 1 / 8

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

28-561

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Toner

**1.2.2 Uses advised against**

None known.

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

**Company** Pelikan Hardcopy Production AG  
Haldenstrasse 28  
8620 Wetzikon / SWITZERLAND  
Phone +41 (0) 44 9861-299

**Address enquiries to****Technical information****Safety Data Sheet** sdb@chemiebuero.de**1.4 Emergency telephone number****Company** +41 (0) 44 9861-299 Mo-Fr 8:00-17:00**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

No classification.

**2.2 Label elements**

The product does not require a hazard warning label in accordance with GHS/CLP-directives.

**Hazard pictograms** none**Signal word** none**Hazard statements** none**Special labelling** EUH210 Safety data sheet available on request.**2.3 Other hazards****Physico-chemical hazards** Accumulation of fine dust may entail the risk of a dust explosion in the presence of air (only in circumstances of an uncontrolled release of dust from the product).**Human health dangers** No particular hazards known.**Other hazards** Further hazards were not determined with the current level of knowledge.**SECTION 3: Composition / Information on ingredients****Product-type:**

The product is a mixture.

Range [%]	Substance
0,25 - 2,5	bis(3,5-di-tert-butylsalicylato-O1,O2)zinc CAS: 42405-40-3, EINECS/ELINCS: 403-360-0, EU-INDEX: 030-007-00-4, Reg-No.: 01-0000012015-85-XXXX GHS/CLP: Flam. Sol. 2: H228 - Acute Tox. 4: H302 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

**Pelikan Hardcopy Production AG**

8620 Wetzikon

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 2 / 8

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>General information</b>	Change powdered clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical treatment.
<b>Ingestion</b>	In the event of symptoms seek medical treatment. Rinse out mouth and give plenty of water to drink.

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

None known.

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

**Suitable extinguishing media** Carbon dioxide.  
Dry powder.  
Foam.  
Water spray jet.

**Extinguishing media that must not be used** Full water jet

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

Risk of formation of toxic pyrolysis products.

**5.3 Advice for firefighters**

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**Ensure adequate ventilation.  
Avoid dust formation.**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**Take up mechanically.  
Avoid raising dust.  
Dispose of absorbed material in accordance within the regulations.**6.4 Reference to other sections**

See SECTION 8+13

**Pelikan Hardcopy Production AG**  
**8620 Wetzikon**

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 3 / 8

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid the formation and deposition of dust.  
Provide vacuuming if dust raised.

Dust can form an explosive mixture with air (only in circumstances of an uncontrolled release of dust from the product)

Keep away from all sources of ignition.

Wash hands before breaks and after work.  
Use barrier skin cream.

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

Keep only in original container.  
Prevent penetration into the ground.

Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.

Store in a dry place.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
7 - 15	Iron (III) oxide
	EINECS/ELINCS: 215-168-2
	Long-term exposure: 1 mg/m <sup>3</sup> , as Fe
	Short-term exposure (15-minute): 2 mg/m <sup>3</sup>
2 - 8	Carbon Black
	CAS: 1333-86-4, EINECS/ELINCS: 215-609-9, Reg-No.: 01-2119384822-32-XXXX
	Long-term exposure: 3,5 mg/m <sup>3</sup>
	Short-term exposure (15-minute): 7 mg/m <sup>3</sup>
1 - 4	Silicon dioxide
	CAS: 7631-86-9, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX
	Long-term exposure: 6 mg/m <sup>3</sup> , total inhalable dust

### 8.2 Exposure controls

**Additional advice on system design** Ensure adequate ventilation on workstation.

**Eye protection** Safety glasses.

**Hand protection** 0,4mm butyl rubber, > 120 min (EN 374)  
The details concerned are recommendations. Please contact the glove supplier for further information.

**Skin protection** Not required under normal conditions.

**Other** Avoid contact with eyes and skin.  
Do not inhale dust.

**Respiratory protection** Breathing apparatus in the event of high concentrations.  
short term: filter apparatus, filter P1

**Thermal hazards** none

**Delimitation and monitoring of the environmental exposition** See SECTION 6+7.

**Pelikan Hardcopy Production AG**  
**8620 Wetzikon**

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 4 / 8

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	powder
Color	black
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	1,2-1,4
Bulk density [kg/m <sup>3</sup> ]	not determined
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	~140
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	>200

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air (only in circumstances of an uncontrolled release of dust from the product).  
Reactions with oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## Pelikan Hardcopy Production AG

8620 Wetzikon

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 5 / 8

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product
LD50, oral, Rat: >2500 mg/kg bw.
LC50, inhalativ (dust), Rat: >5,19 mg/l/4h.

Range [%]	Substance
0,25 - 2,5	bis(3,5-di-tert-butylsalicylato-O1,O2)zinc, CAS: 42405-40-3
	LD50, dermal, Rat: > 2000 mg/kg OECD 402.
	LD50, oral, Rat: 1800 mg/kg OECD 401.

<b>Serious eye damage/irritation</b>	Not irritating to rabbit eyes acc. to 1272/2008/EC.
<b>Skin corrosion/irritation</b>	Not irritating on rabbit skin acc. to 1272/2008/EC.
<b>Respiratory or skin sensitisation</b>	Not sensitizing in the maximum-dose test on guinea pigs.
<b>Specific target organ toxicity — single exposure</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
<b>Specific target organ toxicity — repeated exposure</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
<b>Mutagenicity</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
<b>Reproduction toxicity</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
<b>Carcinogenicity</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
<b>Aspiration hazard</b>	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
<b>General remarks</b>	No classification.

**SECTION 12: Ecological information****12.1 Toxicity**

Product
LC50, (96h), Oryzias latipes: >100 mg/l.
EC50, (48h), Daphnia magna: >100 mg/l.
Erl50, (72h), Pseudokirchneriella subcapitata: >100 mg/l.

Range [%]	Substance
0,25 - 2,5	bis(3,5-di-tert-butylsalicylato-O1,O2)zinc, CAS: 42405-40-3
	LC50, (96h), fish: 5,5 mg/l.
	EC50, (48h), Daphnia magna: 0,73 mg/l.
	NOEC, (72h), Desmodesmus subspicatus: 0,2 mg/l.
	EbC50, (72h), Desmodesmus subspicatus: 0,64 mg/l.
	ErC50, (24h), Desmodesmus subspicatus: 1 mg/l.

**12.2 Persistence and degradability**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not determined

**Pelikan Hardcopy Production AG****8620 Wetzikon**

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 6 / 8

**12.3 Bioaccumulative potential**

Accumulation in organisms is not expected.

**12.4 Mobility in soil**

not determined

**12.5 Results of PBT and vPvB assessment**

Based on all available information not to be classified as PBT or vPvB respectively.

**12.6 Other adverse effects**

None known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Coordinate disposal with the authorities if necessary.  
For recycling, consult manufacturer.

**Waste no. (recommended)** 080318**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.

**Waste no. (recommended)** 150102**SECTION 14: Transport information****14.1 UN number**

See SECTION 14.2 in accordance with UN shipping name

**14.2 UN proper shipping name****Transport by land according to ADR/RID** NO DANGEROUS GOODS**Inland navigation (ADN)** NO DANGEROUS GOODS**Marine transport in accordance with IMDG** NOT CLASSIFIED AS "DANGEROUS GOODS"**Air transport in accordance with IATA** NOT CLASSIFIED AS "DANGEROUS GOODS"**14.3 Transport hazard class(es)**

See SECTION 14.2 in accordance with UN shipping name

**14.4 Packing group**

See SECTION 14.2 in accordance with UN shipping name

**14.5 Environmental hazards**

See SECTION 14.2 in accordance with UN shipping name

**Pelikan Hardcopy Production AG**  
**8620 Wetzikon**

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 7 / 8

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

### SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	no
- VOC (1999/13/CE)	not applicable

#### 15.2 Chemical safety assessment

not applicable

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H302 Harmful if swallowed.  
H228 Flammable solid.

#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified Chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
TLV@/TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

**Pelikan Hardcopy Production AG**

**8620 Wetzikon**

Date printed 15.09.2015, Revision 15.09.2015

Version 02. Supersedes version: 01

Page 8 / 8

**16.3 Other information**

Classification procedure

Modified position

none

Copyright: Chemiebüro®

