

Pelikan Hardcopy Production AG

8620 Wetzikon

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

28-770

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.

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

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

General information	Change powdered clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek medical treatment.
Ingestion	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	Water spray jet. Dry powder. Carbon dioxide. Foam.
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

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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.

Do not store together with oxidizing agents.

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
<3	Silicon dioxide, amorphous
	CAS: 7631-86-9, EINECS/ELINCS: 231-545-4
	Long-term exposure: 6 mg/m ³ , total inhalable dust
<2	Titanium dioxide
	CAS: 13463-67-7, EINECS/ELINCS: 236-675-5
	Long-term exposure: 4 mg/m ³ , respirable; total inhalable: TWA=10 mg/m ³

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	powder
Color	various
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]	not determined
Bulk density [kg/m ³]	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]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

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

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, oral, >2000 mg/kg bw.
ATE-mix, inhalativ (dust), >5 mg/l.
ATE-mix, dermal, >2000 mg/kg bw.

Serious eye damage/irritation	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Skin corrosion/irritation	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Respiratory or skin sensitisation	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Specific target organ toxicity — repeated exposure	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Mutagenicity	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Reproduction toxicity	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Carcinogenicity	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
Aspiration hazard	Toxicological data of complete product are not available. Does not contain a relevant substance that meets the classification criteria.
General remarks	No classification.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

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.

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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

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

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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 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

16.2 Other information**Classification procedure****Modified position**

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 been added: Toxicological data of complete product are not available.



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