

## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
Date of first issue: 03/21/2018

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## SECTION 1. IDENTIFICATION

Product name : SILVERSHINE P-1000

Product code : 052618IA0

**Manufacturer or supplier's details**

Company name of supplier : ECKART GmbH

Address : Guentersthal 4  
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone : CHEMTREC: 800-424-9300  
CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero GmbH, Ingelheim, Germany:  
From outside US: (001) 352-323-3500  
(First call in English, response in your language is possible)  
US & Canada (toll free):1-800-5355-053

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with 29 CFR 1910.1200**

Flammable solids : Category 1

Reproductive toxicity : Category 1B

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H228 Flammable solid.  
H360 May damage fertility or the unborn child.

## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

## Precautionary Statements

: **Prevention:**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P370 + P378	In case of fire: Use for extinction: Special powder for metal fires.
P370 + P378	In case of fire: Use for extinction: Dry sand.

**Storage:**

P405	Store locked up.
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**Disposal:**

P501	Dispose of contents/ container to an approved waste disposal plant.
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Hazardous ingredients which must be listed on the label:

1-Propanol, 2-methoxy-, acetate

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous ingredients**

Chemical name	CAS-No.	Concentration (% w/w)
2-Propanol, 1-methoxy-, 2-acetate	108-65-6	>= 50 - < 70
Naphtha (petroleum), hydrotreated heavy	64742-48-9	>= 10 - < 20
Solvent naphtha (petroleum), light arom.	64742-95-6	>= 10 - < 20
Aluminum	7429-90-5	>= 10 - < 20
Aluminum	7429-90-5	>= 5 - < 10
acetone	67-64-1	>= 1 - < 5
1-Propanol, 2-methoxy-, acetate	70657-70-4	>= 0.1 - < 1

**SILVERSHINE P-1000**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

---

**SECTION 4. FIRST AID MEASURES**

- General advice : Take the victim into fresh air.  
Do not leave the victim unattended.  
Move out of dangerous area.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
  
Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : May damage fertility or the unborn child.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Dry sand  
Special powder against metal fire
- Unsuitable extinguishing media : Water  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
ABC powder
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Further information : Collect contaminated fire extinguishing water separately. This

**SILVERSHINE P-1000**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Avoid dust formation.  
Remove all sources of ignition.

Environmental precautions :  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Do not flush with water.  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : Earthing of containers and apparatuses is essential.  
Take measures to prevent the build up of electrostatic charge.  
Use explosion-proof equipment.

Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Keep away from heat and sources of ignition.  
Avoid dust formation.  
Ensure adequate ventilation.

For personal protection see section 8.

## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
 Date of first issue: 03/21/2018

Smoking, eating and drinking should be prohibited in the application area.  
 Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Store in original container.  
 Keep containers tightly closed in a cool, well-ventilated place.  
 Keep container closed when not in use.  
 Keep away from sources of ignition - No smoking.

No smoking.  
 Keep container tightly closed in a dry and well-ventilated place.  
 Electrical installations / working materials must comply with the technological safety standards.

Technical measures/Precautions : Protect from humidity and water.  
 Do not allow to dry.

Materials to avoid : Do not store together with oxidizing and self-igniting products.  
 Never allow product to get in contact with water during storage.  
 Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Propanol, 1-methoxy-, 2-acetate	108-65-6	TWA	50 ppm	US WEEL
Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1

# SAFETY DATA SHEET



## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
 Date of first issue: 03/21/2018

		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m3	OSHA P0
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (Respirable fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (welding fumes)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA	1 mg/m3	ACGIH

# SAFETY DATA SHEET



## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
 Date of first issue: 03/21/2018

		(Respirable fraction)	(Aluminum)	
		TWA (Fumes)	5 mg/m3	OSHA P0
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable fraction)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (Respirable fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (welding fumes)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Respirable)	1 mg/m3 (Aluminum)	ACGIH

# SAFETY DATA SHEET



## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
 Date of first issue: 03/21/2018

		fraction)		
		TWA (Fumes)	5 mg/m3	OSHA P0
acetone	67-64-1	TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0

### Hazardous components without workplace control parameters

Ingredients	CAS-No.
1-Propanol, 2-methoxy-, acetate	70657-70-4

### Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
acetone	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50 mg/l	ACGIH BEI

### Personal protective equipment

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Hand protection  
 Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from



## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection	:	Safety glasses
Skin and body protection	:	Long sleeved clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Wash hands before breaks and at the end of workday.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Pasty solid
Color	:	silver
Odor	:	odorless
Odor Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	146 °C
Flash point	:	40 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Auto-flammability	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.4 g/cm <sup>3</sup>
Solubility(ies)	:	No data available
Partition coefficient: n-	:	No data available

## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

octanol/water	
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: Not explosive Vapors may form explosive mixture with air.

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Reacts with alkalis, acids, halogenes and oxidizing agents. Contact with acids and alkalis may release hydrogen. Mixture reacts slowly with water resulting in evolution of hydrogen. Vapors may form explosive mixture with air. Stable under recommended storage conditions.
Conditions to avoid	: Do not allow to dry.  Heat, flames and sparks.
Incompatible materials	: Acids Bases Oxidizing agents Highly halogenated compounds

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Ingredients:****Naphtha (petroleum), hydrotreated heavy:**

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): Test atmosphere: vapor Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	: LD50 (Rabbit): > 5,000 mg/kg

**Solvent naphtha (petroleum), light arom.:**

# SAFETY DATA SHEET



## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
Date of first issue: 03/21/2018

---

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**IARC**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

May damage fertility or the unborn child.

**STOT-single exposure**

Not classified based on available information.

**Ingredients:**

**Solvent naphtha (petroleum), light arom.:**

Assessment: May cause respiratory irritation., May cause drowsiness or dizziness.

**SILVERSHINE P-1000**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Ingredients:**

**Solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

**Further information**

**Ingredients:**

**Naphtha (petroleum), hydrotreated heavy:**

Remarks: Solvents may degrease the skin.

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ingredients:**

**Solvent naphtha (petroleum), light arom.:**

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**Ingredients:**

**Naphtha (petroleum), hydrotreated heavy:**

Additional ecological information : No data available

## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
In accordance with local and national regulations.

## SECTION 14. TRANSPORT INFORMATION

**International Regulations****IATA-DGR**

- UN/ID No. : UN 1325  
Proper shipping name : Flammable solid, organic, n.o.s.  
(Aluminium pigment paste)  
Class : 4.1  
Packing group : II  
Labels : Flammable Solid  
Packing instruction (cargo aircraft) : 448  
Packing instruction (passenger aircraft) : 445

**IMDG-Code**

- UN number : UN 1325  
Proper shipping name : FLAMMABLE SOLID, ORGANIC, N.O.S.  
(Aluminium pigment paste)  
Class : 4.1  
Packing group : II  
Labels : 4.1  
EmS Code : F-A, S-G  
Marine pollutant : no  
Remarks : IMDG Code segregation group 15 - Powdered metals

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**Domestic regulation**

# SAFETY DATA SHEET



## SILVERSHINE P-1000

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002376      Date of last issue: -  
Date of first issue: 03/21/2018

---

### 49 CFR

UN/ID/NA number : UN 1325  
Proper shipping name : Flammable solids, organic, n.o.s.  
(Aluminum pigment paste)  
Class : 4.1  
Packing group : II  
Labels : FLAMMABLE SOLID  
ERG Code : 133  
Marine pollutant : no

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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)
acetone	67-64-1	5000

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Reproductive toxicity

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Aluminum	7429-90-5	>= 10 - < 20 %
Aluminum	7429-90-5	>= 5 - < 10 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

acetone	67-64-1	1.8 %
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---

## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations****Massachusetts Right To Know**

Solvent naphtha (petroleum), light arom.	64742-95-6
Aluminum	7429-90-5
Aluminum	7429-90-5
acetone	67-64-1
Fatty acids, C14-18 and C16-18-unsatd.	67701-06-8

**Pennsylvania Right To Know**

2-Propanol, 1-methoxy-, 2-acetate	108-65-6
Naphtha (petroleum), hydrotreated heavy	64742-48-9
Solvent naphtha (petroleum), light arom.	64742-95-6
Aluminum	7429-90-5
Aluminum	7429-90-5
acetone	67-64-1

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

Aluminum	7429-90-5
Aluminum	7429-90-5

## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

**California Permissible Exposure Limits for Chemical Contaminants**

2-Propanol, 1-methoxy-, 2-acetate	108-65-6
Aluminum	7429-90-5
Aluminum	7429-90-5

**The ingredients of this product are reported in the following inventories:**

DSL : All components of this product are on the Canadian DSL

TSCA : On TSCA Inventory

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16. OTHER INFORMATION****Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / STEL : Short-term exposure limit

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-3 / TWA : 8-hour time weighted average

US WEEL / TWA : 8-hr TWA

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation,



## SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002376	Date of first issue: 03/21/2018

---

and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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US / Z8