

SILVERSHINE P-1000

Version 1.0 Revision Date: 03/27/2018 SDS Number: 102000002376 Date of last issue: -
Date of first issue: 03/27/2018

SECTION 1. PRODUCT AND COMPANY 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**

Flammable solids : Category 1

Reproductive toxicity : Category 1B

Chronic aquatic toxicity : Category 3

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H228 Flammable solid.

SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000002376	Date of first issue: 03/27/2018

H360 May damage fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P273	Avoid release to the environment.
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.
------	------------------

Disposal:

P501	Dispose of contents/ container to an approved waste disposal plant.
------	---

Hazardous ingredients which must be listed on the label:

Solvent naphtha (petroleum), light arom.
1-Propanol, 2-methoxy-, acetate

Other hazards

None known.

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

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.	64742-95-6	>= 10 -< 20

SAFETY DATA SHEET



SILVERSHINE P-1000

Version 1.0 Revision Date: 03/27/2018 SDS Number: 102000002376 Date of last issue: -
Date of first issue: 03/27/2018

Aluminum	7429-90-5	>= 10 -< 20
Aluminum	7429-90-5	>= 5 -< 10
acetone	67-64-1	>= 1 -< 5
Fatty acids, C14-18 and C16-18-unsatd.	67701-06-8	>= 1 -< 5
1-Propanol, 2-methoxy-, acetate	70657-70-4	>= 0.1 -< 1

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.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry sand
Special powder against metal fire
-

SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000002376	Date of first issue: 03/27/2018

- Unsuitable extinguishing media : Water
Foam
Carbon dioxide (CO₂)
ABC powder
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This 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.
-

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.
-

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.
-

SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000002376	Date of first issue: 03/27/2018

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

Hygiene measures : Wash hands before breaks and at the end of workday.

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.

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
Solvent naphtha (petroleum),	64742-95-6	TWA	200 mg/m ³	ACGIH

SAFETY DATA SHEET



SILVERSHINE P-1000

Version 1.0 Revision Date: 03/27/2018 SDS Number: 102000002376 Date of last issue: -
 Date of first issue: 03/27/2018

light arom.			(total hydrocarbon vapor)	
Aluminum	7429-90-5	LMPE-PPT	10 mg/m3	MX OEL
		LMPE-PPT (Dust)	10 mg/m3	MX OEL
		TWA (Respirable fraction)	1 mg/m3	ACGIH
		TWA (Respirable fraction)	1 mg/m3 (Aluminum)	ACGIH
Aluminum	7429-90-5	LMPE-PPT	10 mg/m3	MX OEL
		LMPE-PPT (Dust)	10 mg/m3	MX OEL
		TWA (Respirable fraction)	1 mg/m3	ACGIH
		TWA (Respirable fraction)	1 mg/m3 (Aluminum)	ACGIH
acetone	67-64-1	LMPE-PPT	1,000 ppm 2,400 mg/m3	MX OEL
		LMPE-CT	1,260 ppm 3,000 mg/m3	MX OEL
		TWA	500 ppm	ACGIH
		STEL	750 ppm	ACGIH

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	50 mg/l	MX BEI
		Acetone	Urine	End of shift (As soon as possible after exposure ceases)	50 mg/l	ACGIH BEI

SILVERSHINE P-1000

Version 1.0 Revision Date: 03/27/2018 SDS Number: 102000002376 Date of last issue: -
Date of first issue: 03/27/2018

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 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.

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

SAFETY DATA SHEET



SILVERSHINE P-1000

Version Revision Date: SDS Number: Date of last issue: -
1.0 03/27/2018 102000002376 Date of first issue: 03/27/2018

Flammability (solid, gas) : No data available
Auto-flammability : not auto-flammable
Upper explosion limit / Upper : No data available
flammability limit
Lower explosion limit / Lower : No data available
flammability limit
Vapor pressure : No data available
Relative density : No data available
Density : 1.4 g/cm³

Solubility(ies) : No data available
Partition coefficient: n- : No data available
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.

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 : Reacts with alkalis, acids, halogenes and oxidizing agents.
reactions : 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

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000002376	Date of first issue: 03/27/2018

Ingredients:

Solvent naphtha (petroleum), light arom.:

Acute oral toxicity : LD50 (Rat): 3,492 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

Fatty acids, C14-18 and C16-18-unsatd.:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 46 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
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.

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	03/27/2018	102000002376	Date of first issue: 03/27/2018

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:

Fatty acids, C14-18 and C16-18-unsatd.:

Remarks: No data available

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:

Fatty acids, C14-18 and C16-18-unsatd.:

Additional ecological information : No data available

SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000002376	Date of first issue: 03/27/2018

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: 03/27/2018 SDS Number: 102000002376 Date of last issue: -
Date of first issue: 03/27/2018

NOM-002-SCT

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

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : acetone
essential chemical products and machinery for
producing capsules, tablets and pills.

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
MX BEI : Official Mexican Norm NOM-047-SSA1-2011, Environmental
Health - Biological exposure indices for workers
occupationally exposed to chemical agents
MX OEL : Mexico. Occupational Exposure Limits
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
MX OEL / LMPE-PPT : Time weighted average
MX OEL / LMPE-CT : Short term exposure limit

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; IARC - International Agency for

SILVERSHINE P-1000

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/27/2018	102000002376	Date of first issue: 03/27/2018

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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 03/27/2018

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MX / Z8