

## SILVERSHINE S 1100

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002374      Date of last issue: -  
Date of first issue: 03/21/2018

---

**SECTION 1. IDENTIFICATION**

Product name : SILVERSHINE S 1100

Product code : 052491JD0

**Manufacturer or supplier's details**

Company name of supplier : ECKART GmbH

Address : Guentersthal 4  
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone number : 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 the Hazardous Products Regulations**

Flammable solids : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central nervous system)

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H228 Flammable solid.  
H335 May cause respiratory irritation.

## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

H336 May cause drowsiness or dizziness.

## Precautionary statements

: **Prevention:**

- 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.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- 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:**

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

**Disposal:**

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

**Other hazards**

None known.

---

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

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.	64742-95-6	>= 30 - < 50
Naphtha (petroleum), hydrotreated heavy	64742-48-9	>= 30 - < 50
Aluminum	7429-90-5	>= 20 - < 30

**SILVERSHINE S 1100**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

---

**SECTION 4. FIRST AID MEASURES**

- General advice : Move the victim to fresh air.  
Do not leave the victim unattended.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- 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 cause respiratory irritation.  
May cause drowsiness or dizziness.

---

**SECTION 5. FIREFIGHTING 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 firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

**SILVERSHINE S 1100**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

Further information : 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 firefighters : 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.  
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.  
Use explosion-proof equipment.  
  
Avoid dust formation.  
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.

---

## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

Ensure adequate ventilation.

Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Provide sufficient air exchange and/or exhaust in work rooms.

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.

Observe label precautions.

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

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	CA AB OEL
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon)	ACGIH

## SILVERSHINE S 1100

Version 1.0      Revision Date: 03/21/2018      SDS Number: 102000002374      Date of last issue: -  
 Date of first issue: 03/21/2018

Naphtha (petroleum), hydrotreated heavy	64742-48-9	TWA	vapor) 525 mg/m <sup>3</sup>	CA ON OEL
Aluminum	7429-90-5	TWAEV	10 mg/m <sup>3</sup>	CA QC OEL
		TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Respirable)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Dust)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Respirable)	1 mg/m <sup>3</sup> (Aluminium)	CA BC OEL
		TWAEV (Fumes)	5 mg/m <sup>3</sup> (Aluminium)	CA QC OEL
		TWA (Respirable fraction)	1 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable fraction)	1 mg/m <sup>3</sup> (Aluminium)	ACGIH

**Personal protective equipment**

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

In the case of dust or aerosol formation use respirator with an approved filter.

Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

## 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.

# SAFETY DATA SHEET



## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

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.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Pasty solid
Colour	:	silver
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	162 °C
Flash point	:	41 °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
Vapour pressure	:	No data available
Relative density	:	No data available
Solubility(ies)	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	Not explosive Vapours may form explosive mixture with air.

---

### SECTION 10. STABILITY AND REACTIVITY

## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

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. Vapours 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.

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

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

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

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

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): Test atmosphere: vapour  
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

**Skin corrosion/irritation**

Not classified based on available information.

---



**SILVERSHINE S 1100**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

May cause respiratory irritation.

May cause drowsiness or dizziness.

**Components:**

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

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

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

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

May be fatal if swallowed and enters airways.

**Further information**

**Components:**

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

Remarks: Solvents may degrease the skin.

**SILVERSHINE S 1100**

Version            Revision Date:            SDS Number:            Date of last issue: -  
1.0                03/21/2018                102000002374            Date of first issue: 03/21/2018

---

---

**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Components:**

**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

**Components:**

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

Additional ecological                :    No data available  
information

---

**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**

## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

**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, Solvent naphtha)
Class	: 4.1
Packing group	: II
Labels	: 4.1
EmS Code	: F-A, S-G
Marine pollutant	: yes
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.

**National Regulations****TDG**

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
ERG Code	: 133
Marine pollutant	: no

**SECTION 15. REGULATORY INFORMATION**

<b>Canadian PBT Chemicals</b>	: This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA: Naphtha (petroleum), hydrotreated heavy
<b>NPRI Components</b>	: Aluminum

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

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

## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

TSCA : On TSCA Inventory

**Canadian lists**

No substances are subject to a Significant New Activity Notification.

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

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	Time-weighted average exposure value

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 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 -

# SAFETY DATA SHEET



## SILVERSHINE S 1100

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	03/21/2018	102000002374	Date of first issue: 03/21/2018

---

(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 : 03/21/2018

The information provided in this 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.

CA / EN