

Safety Data Sheet (SDS)

SWP-9x SEPA Silver Compound

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03



1 Identification

Product identifier

Trade name: SWP-9x SEPA Silver Compound

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available

Product description Silver and Ceramic Thermal Compound

Details of the supplier of the safety data sheet

Supplier:

SEPA EUROPE GmbH

Hartheimer Str. 6

79427 Eschbach

Phone: +49/7634/59459-0

Fax: +49/7634/59459-199

info@sepa-europe.com

www.sepa-europe.com

In case of emergency:

mail@giftnotruf.de

Emergency center: 112

2 Hazard(s) identification

Classification of the substance or mixture



GHS09 Environment

Aquatic Chronic 2

Eye Irrit. 2B

H411 Toxic to aquatic life with long lasting effects.

H320 Causes eye irritation.

Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS09

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Signal word Warning

Hazard statements

Causes eye irritation.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Avoid release to the environment.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Collect spillage.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

10 percent of the mixture consists of ingredient(s) of unknown toxicity.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 1

Reactivity = 0

HMS-ratings (scale 0 - 4)

HEALTH	1
FIRE	1
REACTIVITY	0

Health = 1

Fire = 1

Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

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3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

CAS: 1314-13-2		Zinc Oxide	30-40%
RTECS: ZH 4810000		Aquatic Acute1, H400; Aquatic Chronic 1, H410	
CAS: 10043-11-5		Boron Nitride	<5%
		Skin Irrit.2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	
CAS: 1344-28-1		Aluminium Oxide	<5%
RTECS: BD 1200000		STOT SE 3, H335	

4 First-aid measure

Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Generally the product does not irritate the skin.

If skin irritation occurs, consult a doctor.

After eye contact:

Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes.

Have eyes examined and tested by medical personnel.

After swallowing:

If swallowed and symptoms occur, consult a doctor.

If large quantities are ingested, seek medical advice.

Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measure

Extinguishing media

Suitable extinguishing agents: Use firefighting measures that suit the environment.

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment:

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As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and yes.

6 Accidental release measure

Personal precautions, protective equipment and emergency procedures Not required.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool, dry place away from sparks and flame.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters

Components with occupational exposure limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

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Wash hands before breaks and at the end of work.

Breathing equipment: Not required.

Protection of hands: Not required.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Grease
Color:	Grey
Odor:	Odorless
Odor threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	2180 °C (3956 °F)
Flash point:	> 999 °C (> 1830 °F)
Flammability (solid, gaseous):	Not applicable.

Ignition temperature:

Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not determined.
Density @ 20 °C (68 °F):	4.05 g/cm ³ (33.797 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with

Water:	Slightly soluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

Solvent content:

Organic solvents:	0.0 %
Other information	No further relevant information available.

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10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability Stable under normal conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: Strong acids, strong bases, strong oxidizing agents and strong reducing agents.

Hazardous decomposition products:

Carbon dioxide, carbon monoxide and nitrogen oxides.

Reacts with acids and alkalis to form combustible hydrogen gas.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

1314-13-2 Zinc Oxide

Oral LD50 > 5000 mg/kg (rat)

Primary irritant effect:

on the skin: No irritating effect.

on the eye: No irritating effect.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients are listed.

NTP (National Toxicology Program)

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information Identification

Toxicity

Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

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Ecotoxicological effects:

Remark: Very toxic for fish

Additional ecological information:

General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number	
DOT	Non-Regulated Material
ADR, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Non-Regulated Material
ADR	UN3082 Environmentally hazardous substances, liquid, n.o.s. (Zinc Oxide)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide)
Transport hazard class(es)	
DOT	
Class	Non-Regulated Material

· ADR



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Class 9 (M6) Miscellaneous dangerous substances and articles
Label 9
IMDG, IATA



Class 9 Miscellaneous dangerous substances and articles
Label 9
Packing group
DOT Non-Regulated Material
ADR, IMDG, IATA III
Environmental hazards: Product contains environmentally hazardous substances: Zinc Oxide
Special marking (ADR): Symbol (fish and tree)
Special marking (IATA): Symbol (fish and tree)
Special precautions for user Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler): 90
EMS Number: F-A,S-F
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

ADR
Excepted quantities (EQ) Code: E1
IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ)
Code: E1

UN "Model Regulation": UN3082, Environmentally hazardous substances, liquid, n.o.s. (Zinc Oxide), 9, III

15 Regulatory information

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

Sara

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

7440-22-4 Silver

1314-13-2 Zinc Oxide

1344-28-1 Aluminum Oxide

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TSCA (Toxic Substances Control Act):

All ingredients are listed.

California Proposition 65

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

7440-22-4 Silver

1314-13-2 Zinc Oxide

10043-11-5 Boron Nitride

D
D, I, II
I (oral)

TLV (Threshold Limit Value established by ACGIH)

1344-28-1 Aluminum Oxide

A4

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS09

Signal word Warning

Hazard statements

Causes eye irritation.

Toxic to aquatic life with long lasting effects.

Precautionary statements

Avoid release to the environment.

Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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If eye irritation persists: Get medical advice/attention.
Collect spillage.
Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

State Right to Know

All ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision 02/2016

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

Aquatic Acute 1: Hazardous to the aquatic environment – Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2