

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifier**

Product Number: SILSOURCE™ SS-4040
Chemical name: PHENYLTRIS(METHYLETHYLKETOXIME)SILANE
CAS No.: 34036-80-1

1.2 1.2 Relevant identified uses of the substance or mixture and uses advised against

For industrial use

1.3 Details of the supplier of the safety data sheet

Manufactured/Supplied by Silsource Inc.
ADDRESS: 240 Mary Street, Port Perry, ON L9L 1B7

CHEMICAL EMERGENCY ONLY (PHONE): CANUTEC [24 Hr.] CANADA 888-226-8832 or 613-996-6666
CHEMTREC [24 Hr.] USA 1-800-262-8200

SECTION 2: HAZARD IDENTIFICATION**2.1 GHS Classification**

H315	Skin Irrit. 2	R38
H319	Eye Irrit. 2	R36
H335	STOT SE 3a	R37

The risk codes have been generated using Annex VII of directive 67/548/EEC. Risk code combinations are not included.

2.2 GHS Label elements

Signal Word Warning

2.3 Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

2.4 Precautionary statement(s)

P264	Wash hands thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

2.5 Other hazards

Additional precautionary phrases are located throughout the safety data sheet

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

Chemical name: PHENYLTRIS(METHYLETHYLKETOXIME)SILANE
CAS No.: 34036-80-1
Assay: 100%

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

If inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.

If in eyes

If eye irritation persists: Get medical advice/attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.

If swallowed

Wash out mouth with water.

Most important symptoms and effects

No symptoms.

Indication of any immediate medical attention

Call a POISON CENTER or doctor/physician if you feel unwell. No additional measures required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Carbon dioxide
Dry chemical powder
Water
Unsuitable Do not use water with a full water jet

5.2 Specific hazards during fire fighting

In combustion toxic fumes may form.

5.3 Special protective equipment for firemen

Wear protective clothing to prevent contact with skin and eyes.
Wear self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to section 8 of SDS for personal protection details.

6.2 Environmental preventive measures

Do not discharge into drains or rivers.

6.3 Methods and materials for restraining and cleaning up the spills

Mix with sand or vermiculite.
Transfer to a suitable container.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Personal Precautions

Safe Handling

Handle in fume hood.

7.2 Wash hands immediately after contamination.

Protection against explosions and fires
Take off contaminated clothing and wash before reuse. Wash hands thoroughly after handling.
Normal measures for preventive fire protection

7.3 Conditions for safe storage, including any incompatibilities

Managing Storage Risks

Keep container tightly closed. Store in cool, well ventilated area.

7.4 Storage Controls

No special requirements

7.5 Maintaining Integrity

Keep in tightly closed container in cool area away from direct sunlight or heat sources.

7.6 Other advice

Store in a well-ventilated place. Keep container tightly closed.

7.7 Specific End Uses

The end use(s) have not been fully determined.
The substance is supplied for Research and Development purposes by professionals only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure controls

Control Parameters

No data available.

Exposure Controls

General protective and hygiene measures

Wear protective gloves/protective clothing/eye protection/face protection. . The standard precautionary measures should be adhered to when handling. Wash hands during breaks and at the end of handling the material.

Immediately remove any contaminated clothing.

Engineering measures

Use only outdoors or in a well-ventilated area.

Ensure there is sufficient ventilation of the area.

Eye / Face Protection

Safety Glasses.

Hand protection

Protective gloves.

Respiratory protection

Avoid breathing dust/fume/gas/mist/vapors/spray.

Respiratory protection not required.

Skin protection

Protective clothing.

Other personal protection advice

No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear to straw liquid
Odor:	Mild
Odor threshold:	Not Applicable
PH:	Not Applicable
Melting point / Freezing point:	Not Applicable
Initial boiling point and boiling range:	60-65°C @ 3mm
Flash point	90 °C
Evaporation rate:	Not Applicable
Flammability(solid, gas):	Not Applicable
Upper/lower flammability or explosive limits:	Not Applicable
Vapor pressure:	2.1mm @ 25°C
Vapor density:	Not Applicable
Relative density:	0.995
Solubility(ies):	Not Applicable
Partition coefficient	
: n-octanol/water:	Not Applicable
Auto-ignition temperature:	Not Applicable
Decomposition temperature:	Not Applicable
Viscosity:	Not Applicable
Explosive properties:	Not Applicable
Oxidizing properties:	Not Applicable
Other Information	
No additional information available.	

SECTION 10: STABILITY AND REACTIVITY

10.1 Chemical stability:

Stable under normal conditions.

10.2 Reactivity

Reacts with water

Possibility of Hazardous Reactions

Reacts with water and moisture in air and acids liberating methylethylketoxime. Contact with electrophiles such as ferric chloride can lead to a violent reaction.

Conditions to Avoid

Combustible, avoid contact with heat, sparks or open flame.

Incompatible Materials

Strong oxidizing agents. Iron

Hazardous Decomposition Products:

In combustion emits toxic fumes.

In combustion emits toxic fumes of organic vapors including methylethylketoxime, methylethyl ketone. In combustion emits toxic fumes of silicon dioxides.

In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Route of Infection:****Information****Acute Toxicity**

No data available.

Skin corrosion/irritation

Irritant for skin and mucous membranes

Serious eye damage/irritation

Irritant effect

Respiratory or skin sensitization

No sensitizing effect known

Germ Cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

No data available

12.2 Residual/degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in Soil:

No data available

12.5 Additional Environmental Information:

No data available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Product disposal:**

Dispose of in accordance with local regulations.

Consult state, local or national regulations for proper disposal.

Hand over to authorized disposal company as hazardous waste.

13.2 Packaging disposal:

Dispose of in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION**14.1 UN-Number**

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -	IMDG: -	IATA: -
14.4 Packing group		
ADR/RID: -	IMDG: -	IATA: -
14.5 Environmental hazards		
ADR/RID: no	IMDG Marine Polutant: no	IATA: no
14.6 Special precautions for user		
no data available		

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations:**

Product is not subject to any additional regulations or provisions.

15.2 Safety Assessment

No Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

This SDS is compliant with the GHS requirements outlined at http://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html

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