# **ALSEYE**®

## ALSEYE CORPORATION LIMITED

## Material Safety Date Sheet

Page No.: 1/7

Last Revision Date: 2019/05/01 Version No.: GHS 1.0

### S420 HEAT SINK COMPOUND

### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

1.1 Product Name: S420 HEAT SINK COMPOUND

1.2 Product Code: S420

1.3 Chemical Classification: Silicone compound

1.4 Recommended Product Usage

and Limited Use:

Lubricant

1.5 Company Details

Manufacturer/Supplier: ALSEYE CORPORATION LIMITED

Address: B Block, Big Shuitian Industrial Estate, Niuhu Community, Guanlan Street, Baoan

District, Shenzhen, Guangdong, P.R.China

Telephone Number: +86-0755-23600230 Fax Number: +86-0755-23600230

Emergency Telephone Number: 0755-23600230

**1.6 First Issuing Date:** 2019/05/01

1.7 Chemical Emergency, Spill, Leak 0755-23600230

& Fire Exposure during

**Transport:** 

#### uring

### 2. HAZARD IDENTIFICATION

**Hazard Risk Statement:** 

**2.1 Hazard Classification:** Acute aquatic hazard: Category 1

Chronic aquatic hazard: Category 1

2.2 Label Elements Including Precautionary Statements

Symbol:

Signal Word:

Warning

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Precautionary Statement:** Avoid contact with skin and eyes.

Avoid release to the environment.

In case of fire and/or explosion do not breathe fumes.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

Collect spillage.

Dispose of in accordance with local regulations.

**2.3 Other Hazard:** None known.



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical characterization: Mixture

3.2 Hazardous Ingredients

 Chemical Name
 CAS No.
 % (w/w)

 Zinc oxide
 1314-13-2
 >60

### 4. FIRST AID MEASURES

4.1 First Aid Measures

Eyes: Immediately flush with water.
Skin: No first aid should be needed.
Inhalation: No first aid should be needed.
Oral: Get medical attention.

Comments: Get medical attention.
Treat symptomatically.

4.2 Important Symptoms and

**Hazard Effects:** 

No significant adverse effects from normal use.

4.3 Personal Protection for First Aid or Rescue Personnel

**Respiratory Protection:** No respiratory protection should be needed.

**Eye Protection:** Use proper protection - safety glasses as a minimum. **Skin Protection:** Washing at mealtime and end of shift is adequate.

**4.4 Note to physicians:** Treat symptomatically. For further information, the medical practitioner should contact

Dow Corning (Shanghai) Management Co., Ltd.

### 5. FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

5.2 Unsuitable Extinguishing

Media:

None established.

5.3 Specific Hazards:

None.

5.4 Special Fire Fighting

Procedures:

Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

5.5 Special protective

equipment for the Fire

Fighters:

Self-contained breathing apparatus and protective clothing should be worn in fighting

large fires involving chemicals.

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6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions:** Avoid eye contact. Do not take internally.

**Environmental** Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or

**Precautions:** other appropriate barriers.

**6.3 Methods for Cleaning up:** Observe all personal protective equipment recommendations described in this MSDS. If

diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

7.1 Handling Precautions: Use with adequate ventilation. Avoid eye contact. Do not take internally. Exercise good

industrial hygiene practice. Wash after handling, especially before eating, drinking or

smoking.

**7.2 Storage Conditions:** Use reasonable care and store away from oxidizing materials.

7.3 Unsuitable Packaging

**Materials:** 

None established.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Industrial Hygiene Standards:

Ingredients CAS No. Exposure Limits

Zinc oxide 1314-13-2 China: TWA 3 mg/m3. STEL 5 mg/m3.

OSHA PEL (final rule) (fume): TWA 5 mg/m3, STEL 10 mg/m3. OSHA PEL (final rule) (dust):

TWA 10 mg/m3 total dust, 5 mg/m3 respirable fraction. ACGIH TLV: TWA 2 mg/m3

respirable fraction, STEL 10 mg/m3 respirable fraction.

**8.2** Engineering Controls

**Local Ventilation:** None should be needed.

General Ventilation: Recommended.

8.3 Personal Protective Equipment for Routine Handling

**Respiratory protection:** No respiratory protection should be needed.

**Suitable Respirator:** None should be needed.

**Eye protection:** Use proper protection - safety glasses as a minimum.

**Hand protection:** No special protection needed.

**Skin protection:** Washing at mealtime and end of shift is adequate.



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Hygiene Measures: Exercise good industrial hygiene practice. Wash after handling, especially before eating,

drinking or smoking.

8.4 Personal Protective Equipment for Spills

**Respiratory protection:** No respiratory protection should be needed.

**Eye protection:** Use proper protection - safety glasses as a minimum. **Skin protection:** Washing at mealtime and end of shift is adequate.

**Precautionary Measures:** Avoid eye contact. Do not take internally. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form: Paste

**9.2** Color: Grey

9.3 Odor: Odorless

**9.4 pH:** Not determined.

9.5 Melting Point: Not determined.

**9.6 Boiling point/range:** Not determined.

9.7 Flash Point: > 101 °C(Closed Cup)

**9.8** Explosive Limit: Not determined.

9.9 Vapor Pressure @ 25°C: Not determined.

9.10 Vapour Density (air=1): Not determined.

9.11 Specific Gravity: 2.0 g/cm<sup>3</sup>

**9.12 Water Solubility:** Water Solubility 0 g/l

9.13 Partition Coefficient

(n-Octanol/Water):

Not determined.

**9.14** Autoignition temperature: Not determined.

**9.15 Decomposition** Not determined.

**Temperature:** 

**9.16 Odor Threshold:** Not determined.

9.17 Evaporation Rate: Not determined.

9.18 Flammability (Solid, Gas): Not applicable.

### 10. STABILITY AND REACTIVITY



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**10.1 Stability:** Stable.

10.2 Possibility of Hazardous

**Reactions:** 

Hazardous polymerization will not occur.

10.3 Conditions to Avoid: None.

**10.4 Materials to Avoid:** Can react with strong oxidising agents.

10.5 Hazardous Decomposition

**Products:** 

Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds.

Formaldehyde. Metal oxides.

### 11. TOXICOLOGICAL INFORMATION

11.1 Route of Exposure: Skin contact and accidental ingestion.

11.2 Signs and Symptoms of

Overexposure:

No significant adverse effects from normal use.

11.3 Acute Toxicity:

Chemical Name CAS No. LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

Zinc oxide 1314-13-2 > 5,000 mg/kg (Rat) - -

Eyes: Direct contact may cause temporary redness and discomfort.

Skin: No significant irritation expected from a single short-term exposure.

**Ingestion:** Low ingestion hazard in normal use.

**Inhalation:** No significant effects expected from a single short-term exposure.

11.4 Chronic Toxicity

**Skin:** No known applicable information.

**Ingestion:** Repeated ingestion or swallowing large amounts may injure internally.

**Inhalation:** No known applicable information.

11.5 Other Health Hazard

Information:

Inhalation of fumes may result in metal fume fever, a flu-like illness with symptoms of

metallic taste, fever and chills, aches, chest tightness, and cough.

### 12. ECOLOGICAL INFORMATION

### 12.1 Aquatic and Terrestrial Ecotoxicity

**Ecotoxicity Effects:** 

**Acute:** Very toxic to aquatic life. However, due to the physical form and water-insolubility of the

product the bioavailability is negligible.

**Chronic:** Very toxic to aquatic life with long lasting effects. However, due to the physical form and

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water-insolubility of the product the bioavailability is negligible.

Fate and Effects in Waste Water Treatment Plants:

No adverse effects on bacteria are predicted.

12.2 Persistence and Degradability

Water: Solid material, insoluble in water.

12.3 Bioaccumulative Potential

**Bioaccumulation:** No bioaccumulation potential. This product is a solid which is not soluble in water and if

ingested will not be absorbed.

12.4 Mobility in Soil: This product is a solid and does not contain significant concentrations of water soluble

constituents that may be leached from the product. It is therefore not likely to present a

danger to terrestrial organisms.

12.5 Additional Environmental

**Information:** 

No specific information is available.

### 13. DISPOSAL CONSIDERATIONS

13.1 **Product Disposal:** This material must be disposed of as hazardous waste.

**13.2** Packaging Disposal: Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

### 14.1 Road and Rail Transport

UN No.: 3077

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Technical Name:** Zinc Oxide

Class: 9
Packing Group: III

Hazard Label(s): Miscellaneous articles and substances

14.2 Sea Transport (IMDG)

UN No.: 307

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

**Technical Name:** Zinc Oxide

Class: 9
Packing Group: III

Marine Pollutant (Yes/No): Yes, Zinc Oxide Hazard Label(s): miscellaneous

14.3 Air Transport (IATA)

UN No.: 3077

**Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.



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**Technical Name:** Zinc Oxide

Class: 9
Packing Group: III

Hazard Label(s): Miscellaneous dangerous goods

None.

Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

14.4 Special Requirements and

Additional Information:

### 15. REGULATORY INFORMATION

15.1 Applicable Laws: Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace

The Regulations for Safe Management of Dangerous Chemicals (promulgated by the PRC

Government on 1-2-2002.)

Code of Practice for Safe Management of Dangerous Chemicals (Ministry of Labor,

No.677-1992).

General rule for classification and hazard communication of chemicals [GB 13690-2009]

15.2 Chemical Inventories

**ENCS/ISHL:** All components are listed on ENCS/ISHL or its exempt rule.

**PICCS:** All ingredients listed or exempt.

**TSCA:** All chemical substances in this material are included on or exempted from listing on the

TSCA Inventory of Chemical Substances.

**KECL:** All ingredients listed, exempt or notified.

**AICS:** All ingredients listed or exempt.

**DSL:** All chemical substances in this material are included on or exempted from the DSL.

EINECS: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

HSNO: All ingredients listed or exempt.

### 16. OTHER INFORMATION

**16.1 Contact Point:** Technical Information Center 400 880 7110

16.2 Prepared by: ALSEYE CORPORATION LIMITED

Legend:

No specific information available

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