

Safety Data Sheet
acc. to OSHA HCS

Printing Date 07/19/2018

Revision Number 3


Revision Date 07/19/2018

1 Identification

- **Product identifier**
- **Trade name:** *Kalar 5281*
- **Article number:** *K05281*
- **Relevant identified uses of the substance or mixture.** *Butyl Rubber Sealant formula for tapes*
- **Application of the substance / the mixture** *Preparation*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Royal Adhesives & Sealants, LLC
4401 Page Avenue. P. O. Box 457
Michigan Center, MI 49254
Information Phone Number: 517-764-0334
- **Information department:** *Environment protection department.*
- **Emergency telephone number:**
ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200

 - **Label elements**
 - **GHS label elements** *The product is classified and labeled according to the Globally Harmonized System (GHS).*
 - **Hazard pictograms** *None Required*
 - **Signal word** *None Required*
 - **Hazard statements** *None Required*
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
- 

Health = 0

Fire = 1

Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
- | | | |
|-----------------|---|----------------------------|
| HEALTH | 0 | <i>Health = 0</i> |
| FIRE | 1 | <i>Fire = 1</i> |
| PHYSICAL HAZARD | 0 | <i>Physical Hazard = 0</i> |
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** *Not applicable.*
 - **vPvB:** *Not applicable.*

3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture*

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· Hazardous components:		
26678-93-3	Formaldehyde, polymer with 4-(1,1,3,3-tetramethylbutyl)phenol	≤2.5%
14807-96-6	Talc (3MgO•4SiO ₂ •H ₂ O)	≤2.5%
546-93-0	Magnesite	≤1%
1344-95-2	Silicic acid, calcium salt	≤0.5%
557-05-1	zinc distearate, pure	≤0.5%

· **Additional information:**

All concentrations are in percent by weight unless the ingredient is a gas. Gas concentrations are in percent by volume. Any pigments or fillers in this product which may be considered "Hazardous" are potentially hazardous only if inhaled as an airborne dust. Exposure by these ingredients as used in sealants, putties, bedding compounds and non-sprayable products is highly unlikely. For the wording of the listed risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Overexposure, remove to fresh air and seek medical attention.
- **After skin contact:**
Rinse with water.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Seek medical treatment.
- **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 measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.
- **Additional information** Toxic and irritating gases/fumes may be given off during burning or thermal combustion.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Remove mechanically by a method that minimizes the generation of airborne dust (Talc). Collect and place in appropriately marked sealable containers for recovery or disposal.
Dispose of contaminated material as waste in accordance with federal state and local regulations.
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
546-93-0	Magnesite	45 mg/m ³
557-05-1	zinc distearate, pure	30 mg/m ³
· PAC-2:		
546-93-0	Magnesite	260 mg/m ³
557-05-1	zinc distearate, pure	330 mg/m ³
· PAC-3:		
546-93-0	Magnesite	1,600 mg/m ³
557-05-1	zinc distearate, pure	2,000 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **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.
- **Control parameters**

· Components with limit values that require monitoring at the workplace:	
14807-96-6 Talc (3MgO•4SiO₂•H₂O)	
PEL	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL	Long-term value: 2* mg/m ³ *respirable dust; and <1% Quartz
TLV	Long-term value: 2* mg/m ³ *as respirable fraction; E
546-93-0 Magnesite	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	TLV withdrawn

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1344-95-2 Silicic acid, calcium salt

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV synthetic nonfibrous: TLV withdrawn, see App. B

557-05-1 zinc distearate, pure

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV Long-term value: 10 mg/m³

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

The exposure limit for the Talc dusting agent is 2 mg/m³ (ACGIH TLV). The Talc dusting agent concentration is less than 2%.

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment (see listings below)**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**

For the talc dusting agent:

In the absence of adequate ventilation, use NIOSH-certified respiratory protection for particulate matter/organic vapor. Comply with OSHA 29 CFR 1910.134.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

If material is heated use leather gloves to protect skin from thermal burns.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses with side shields.

· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Solid
· Color:	Off White
· Odor:	Mild
· Odor threshold:	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· **Melting point:** Undetermined.

· **Boiling point:** > 93 °C (>199.4 °F)

· **Flammability (solid, gaseous):** Not determined.

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapor pressure:** Not applicable.

· **Specific gravity at 20 °C (68 °F):** 0.93 g/cm³ (7.76085 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

· **Water:** Insoluble

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:** Not applicable.

· **Kinematic:** Not applicable.

· **Solvent content:**

· **Organic solvents:** 0.0 %

· **Solids content:** 100.0 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Chemical stability**

· **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 oxidizing agents

· **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

· **Additional information:** Prevent dispersion of dust (from Talc dusting agent) in the air.

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11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** May irritate the skin.

- **on the eye:** May irritate the eye.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **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.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **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:** Disposal must be made according Federal, State and local regulations.

- **Uncleaned packagings:**

- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

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14 Transport information

- **UN-Number**
- **DOT, ADN, IMDG, IATA** not regulated
- **UN proper shipping name**
- **DOT, ADN, IMDG, IATA** not regulated
- **Transport hazard class(es)**
- **DOT**
- **Class** not regulated
- **ADN/R Class:** Non-Hazardous
- **IMDG, IATA** not regulated
- **Class** Not Regulated
- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** not regulated

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 is listed.
- **Section 313 (Specific toxic chemical listings):**
- 557-05-1 | zinc distearate, pure
- **TSCA (Toxic Substances Control Act):**
- All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.
- **Proposition 65**
- **Chemicals known to cause cancer:**
- None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:**
- None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:**
- None of the ingredients is listed.
- **Chemicals known to cause developmental toxicity:**
- None of the ingredients is listed.
- **(DSL) Canada Domestic Substance List**
- All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

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· New Jersey Right-to-Know List:		
546-93-0	Magnesite	
1344-95-2	Silicic acid, calcium salt	
557-05-1	zinc distearate, pure	
· New Jersey Special Hazardous Substance List:		
None of the ingredients is listed.		
· Pennsylvania Right-to-Know List:		
1344-95-2	Silicic acid, calcium salt	
557-05-1	zinc distearate, pure	
· Pennsylvania Special Hazardous Substance List:		
557-05-1	zinc distearate, pure	E
· Cancerogenity categories		
· EPA (Environmental Protection Agency)		
557-05-1	zinc distearate, pure	D, I, II
· TLV (Threshold Limit Value established by ACGIH)		
14807-96-6	Talc (3MgO•4SiO ₂ •H ₂ O)	A4
1344-95-2	Silicic acid, calcium salt	A4
· MAK (German Maximum Workplace Concentration)		
14807-96-6	Talc (3MgO•4SiO ₂ •H ₂ O)	3B
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· National regulations:		
· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.		
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:** Environment protection department.

· **Creation Date:** 08/03/2009

· **Date of preparation / last revision** 07/19/2018 / 2

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

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NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

USA