

Printing date 09/18/2015

Version: 4.8

Reviewed on 09/18/2015

1 Identification

- **Product identifier**
- **Trade name:** **PHONOSORB® LD-5 NA**
- **Application of the substance / the preparation:** Absorbent
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
GRACE
W. R. Grace & Co.-Conn
7500 Grace Drive
Columbia MD 21044
U. S. A.
- **Information department:**
Health and Safety (9 AM to 5 PM-EST) 1-410-531-4000
MSDS.Davison@grace.com
- **Emergency telephone number:**
Chemtrec North America: +1-800-424-9300
Chemtrec International: +1-703-527-3887
Other Emergencies (24hr): +1-410-531-4000

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

- **Carc. 1A H350** May cause cancer. Route of exposure: Inhalation.
- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard statements**
May cause cancer. Route of exposure: Inhalation.
- **Precautionary statements**
Wear protective gloves/protective clothing/eye protection/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

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HMIS-ratings (scale 0 - 4)

HEALTH	*1	Health = *1
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

* Product presents long-term adverse effects.

Hazard not otherwise classified

The product is very adsorbent and may have a drying effect on skin and eyes.

When exceeding the OEL (Occupational Exposure Limit) a mechanical overburdening of the respiratory system is possible.

In contact with water heat development and therefore burning of the skin and mucous membrane is possible.

Contains ~1% naturally occurring quartz that is bound in the product matrix with a free respirable crystalline silica to >0.1%.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Crystalline aluminosilicate with binders.

CAS No. and description:

1318-02-1	zeolite (crystalline aluminosilicate)	99-100%
	Silica, crystalline (non respirable form)	≤ 1%

List of Dangerous Components

Silica, crystalline (airborne particles of respirable size)	⚠ Carc. 1A, H350	0.1-1.0%
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Impurities and stabilizing additives:

14808-60-7	quartz (SiO ₂)	
	Silica, crystalline (airborne particles of respirable size)	⚠ Carc. 1A, H350

Additional information:

Quartz is a natural occurring component of the binder. See note in Section 2.

4 First-aid measures

Description of first aid measures

General information: No special measures required.

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

After skin contact:

Immediately flush skin with water for at least 15 minutes.

Generally the product does not irritate the skin.

After eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. If symptoms occur, consult a doctor.

After swallowing: Seek medical attention. Do not induce vomiting.

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.

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5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Hazardous combustion products** No further relevant information available.
- **Protective equipment:** Wear personal protective equipment.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Vacuuming or wet sweeping may be used to avoid dust dispersal.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Keep receptacles tightly sealed.
Provide suction extractors if dust is formed.
Any deposit of dust which cannot be avoided must be regularly removed.
Take precautionary measures against static discharges.
- **Information about protection against explosions and fires:**
When transferring this material into flammable solvents, use proper grounding to avoid static electric sparks.
The product is not flammable.
- **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 foodstuffs.
- **Further information about storage conditions:**
Store in dry conditions.
This product is hygroscopic.
Keep receptacle tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
Valid lists at time of creation were used as basis.
Occupational exposure limits to respirable crystalline silica are not expected to be exceeded during normal, foreseeable conditions of fresh product use, as recommended by GRACE. Exposure to respirable dust and respirable crystalline silica should be monitored and controlled during other conditions.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
Required if the OEL value is exceeded. As appropriate for the employee exposure, use a NIOSH approved respirator and cartridge.
- **Protection of hands:**



Protective gloves

Wear gloves for the protection against mechanical hazards.
Use gloves of stable material (e.g. Nitrile)
Check protective gloves prior to each use for their proper condition.
Check the permeability prior to each new use of the glove.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**
Recommended thickness of the material: ≥ 0.11 mm
Butyl rubber, BR
Nitrile rubber, NBR
- **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Butyl rubber, BR
Nitrile rubber, NBR
- **For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR
- **Not suitable are gloves made of the following materials:**
Strong fabric gloves
Leather gloves
- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Solid Beads
Color:	Beige
Odor:	Odorless

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· Odour threshold:	Not available.
· pH-value at 20 °C (68 °F):	7-11
· Change in condition	
Melting point/Melting range:	>400 °C (>752 °F) (Zeolite, OECD TG 102)
Boiling point/Boiling range:	Not determined.
· Conditions of flammability	
Flash point:	Not available.
· Flammability (solid, gaseous):	Product is not flammable.
· Ignition temperature:	Not available.
· Decomposition temperature:	Not available.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Specific Gravity	Not available
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Insoluble.
· Coefficient of water/oil distribution:	Not available.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** 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:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on the likely routes of exposure**
- **Delayed and immediate effects and chronic effects from short or long term exposure**
- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** May cause irritation with dryness and abrasion.

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- on the eye: No irritating effect.
- Respiratory sensitization No further relevant information available.
- Skin sensitization No further relevant information available.
- Additional toxicological information:
WARNING. Contains a substance known to the State of California to cause cancer.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

1318-02-1	zeolite (crystalline aluminosilicate)	3
14808-60-7	quartz (SiO ₂)	1

· NTP (National Toxicology Program)

14808-60-7	quartz (SiO ₂)	K
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carc. 1A

- Carcinogenicity No further relevant information available.
- Mutagenicity No further relevant information available.
- Reproductive toxicity No further relevant information available.
- Specific target organ toxicity (single exposure) No further relevant information available.
- Specific target organ toxicity (repeated exposure) No further relevant information available.
- Aspiration hazard No further relevant information available.

12 Ecological information

- Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Other information:
By the insolubility in water there is a separation at every filtration and sedimentation process.
- Behavior in environmental systems: Accumulation in organisms is not to be expected.
- Bioaccumulative potential Does not accumulate in organisms
- Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- Recommendation:
Disposal must be made according to official regulations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State/provincial and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state/provincial and local requirements.

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14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	None
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	None
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	None
· Packing group	
· DOT, ADR, IMDG, IATA	None
· 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.
· Transport/Additional information:	Not dangerous according to the above specifications. GRACE recommendation for air transport: Cargo aircraft only.

15 Regulatory information

· SARA
· SARA 302/304
None of the ingredients is listed.
· SARA 313
None of the ingredients is listed.
· SARA 311/312 Delayed (Chronic) Health Hazard.
· TSCA (Toxic Substances Control Act):
EPA has defined zeolites as complex chemical products consisting of silica (SiO ₂) and alumina (Al ₂ O ₃), in various proportions, plus metallic oxides and certain cations. Zeolites are considered for TSCA purposes to be statutory mixtures of the substances used to manufacture them.
All ingredients are listed.
· Proposition 65
· Chemicals known to cause cancer:
Silica, crystalline (airborne particles of respirable size)
· 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.
· Carcinogenic categories
· EPA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value established by ACGIH)
14808-60-7 quartz (SiO ₂)

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· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	quartz (SiO ₂)	
· Canadian DSL All substances are listed or exempt from listing.		
· Canadian NDSL		
All substances are listed or exempt from listing.		
· European EINECS		
All ingredients are listed.		
· Philippines Inventory of Chemicals and Chemical Substances PICCS		
All ingredients are listed.		
· Inventory of the Existing Chemical Substances manufactured or imported in China IECSC		
All ingredients are listed.		
· Australian Inventory of Chemical Substances AICS		
All ingredients are listed.		
· Existing and New Chemical Substance List ENCS		
1318-02-1	zeolite (crystalline aluminosilicate)	
14808-60-7	quartz (SiO ₂)	1-548
· Korean Existing Chemical Inventory KECI		
1318-02-1	zeolite (crystalline aluminosilicate)	KE-35511
14808-60-7	quartz (SiO ₂)	KE-29983
· GHS label elements		
The product is classified and labeled according to the Globally Harmonized System (GHS).		
· Hazard pictograms		



GHS08

- **Signal word** Danger
- **Hazard statements**
May cause cancer. Route of exposure: Inhalation.
- **Precautionary statements**
Wear protective gloves/protective clothing/eye protection/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H350 May cause cancer. Route of exposure: Inhalation.
- **Department issuing SDS:** GRACE Safety & Health Department
- **Tarif number** 38249015

· **Contact:**
SALES OFFICES

USA:
GRACE
W. R. Grace & Co.-Conn

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- Date of preparation / last revision 09/18/2015 / 4.7
- The first date of preparation 05/15/2015
- Number of revision times and the latest revision date 4.8 / 09/18/2015
- 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)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Carc. 1A: Carcinogenicity, Hazard Category 1A

- * Data compared to the previous version altered.

USA