WACKER

Safety Data Sheet

Material: 60080547 **LC 909N HK GREY**

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial product name: **LC 909N HK GREY**

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

Use of substance / preparation:
Commercial.
Sealants

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:	Wacker Chemicals Korea Inc.	
Street/POB-No.:	S-3F, 231 Pangyoyeok-ro Pangyo Techno Valley	
State/postal code/city:	ROK Bundang-gu, Seongnam-si, 463-400	
Telephone:	+82 31 697-7200	
Information about the Safety Data Sheet:	Telephone	+49 8677 83-4888
	eMail	WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information: **+65 3158 1412**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification	H-Code
Carcinogenicity, Category 2	H351

2.2 Label elements

Pictogram(s):



Signal Word: Warning

H-Code	Hazard Statements
H351	Suspected of causing cancer.

P-Code	Precautionary Statements
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection.
P405	Store locked up.

Hazard ingredients (labelling):
2-Butanone oxime

2.3 Other hazards

During the use of the product, 2-butanone oxime (methyl ethyl ketoxime, MEKO, CAS No. 96-29-7) is generated, which evaporates. 2-butanone oxime is classified as a health risk. The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.
Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Polydimethylsiloxane and fillers and auxiliaries and oximosilane cross-linker

3.2.2 Hazardous ingredients

Type	CAS No.	Substance	Content %
INHA	64742-46-7	Distillates, petroleum, hydrotreated middle	>5 – <10
INHA	22984-54-9	Methyl-O,O',O''-butan-2-on-trioximo-silane	<4
VERU	96-29-7	2-Butanone oxime	<2
INHA	1760-24-3	3-(2-Aminoethylamino)propyl trimethoxysilane	>=0,1 – <1
INHA	34206-40-1	Butanone tetraoximo silane	>=0,1 – <1

Type: INHA: ingredient, VERU: impurity

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Take persons to a safe place. Observe self-protection for first aid.

After contact with the eyes:
Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice in case of continuous irritation.

After contact with the skin:
Wipe off excess material with cloth or paper. Remove contaminated or soaked clothing. Immediately rinse with plenty of soap and water. In serious cases, use emergency shower immediately. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:
Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. Seek medical advice and clearly identify substance.

After swallowing:
If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Product causes cancer. In the event of prolonged contact with the substance, long-term monitoring of relevant parameters is advisable. Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
alcohol-resistant foam , carbon dioxide , water mist , sprinkler system , sand , extinguishing powder .

Extinguishing media which must not be used for safety reasons:
water jet .

5.2 Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes .

5.3 Advice for firefighters

Special protective equipment for fire fighting:
Use respiratory protection independent of recirculated air. Keep unprotected persons away.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:
Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

General information:

Avoid exposure by technical measures or personal protective equipment.

Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ. Observe information in section 8.

Precautions against fire and explosion:
Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:
Observe local/state/federal regulations.

Advice for storage of incompatible materials:
Observe local/state/federal regulations.

Further information for storage:
Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

-

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Avoid exposure - obtain special instructions before use. Observe standard industrial hygiene practices for the handling of chemical substances. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Remove contaminated, soaked clothing immediately. Keep working clothes separately. Preventive skin protection recommended. Wash hands at the end of work and before eating. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

Personal protection equipment:

Respiratory protection

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

protective goggles, according to acknowledged standards such as EN 166.

Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of butyl rubber
thickness of the material: > 0,3 mm
Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber
thickness of the material: > 0,4 mm
Breakthrough time: 10 - 30 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

protective clothing, according to acknowledged standards such as EN 13034.

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:		Value:	Method:
Appearance			
Physical state	:	liquid	
Form	:	paste	
Colour	:	grey	
Odour			
Odour	:	organic	
Odour limit			
Odour limit	:	no data available	

pH-Value			
pH-Value	:	Not applicable. Reacts with water.	
Melting point/freezing point			
Melting point / melting range	:	not applicable	
Initial boiling point and boiling range			
Boiling point / boiling range	:	not applicable	
Flash point			
Flash point	:	not applicable	
Evaporation rate			
Evaporation rate	:	no data available	
Upper/lower flammability or explosive limits			
Lower explosion limit (LEL)	:	not applicable	
Upper explosion limit (UEL)	:	no data available	
Vapour pressure			
Vapour pressure	:	not determined	
Solubility(ies)			
Water solubility / miscibility	:	Not applicable. Reacts with water.	
Vapour density			
Relative gas/vapour density	:	no data available	
Relative Density			
Relative Density	:	1,37 (23 °C) (Water / 4 °C = 1,00)	(ISO 1183-1 A)
Density	:	1,37 g/cm³ (23 °C)	(ISO 1183-1 A)
Partition coefficient: n-octanol/water			
Partition coefficient: n-octanol/water	:	not applicable	
Auto-ignition temperature			
Ignition temperature	:	Not determined.	
Decomposition temperature			
Thermal decomposition	:	no data available	
Viscosity			
Viscosity (dynamic)	:	150000 - 250000 mPa.s at 23 °C	(Brookfield)
Viscosity (kinematic)	:	no data available	
Molecular mass			
Molecular mass	:	not applicable	

9.2 Other information

Hydrolysis products reduce the flash point. Explosion limits for released methanol: 5.5 - 44%(V).

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition.

10.5 Incompatible materials

Reacts with water, basic substances and acids. The reaction takes place with the formation of methanol.

10.6 Hazardous decomposition products

2-Butanone oxime and methanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Product details:

Exposure routes	Result/Effect
Oral	LD50 > 2009 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose. Species: Rat, Source: Conclusion by analogy
dermal	LD50 > 2009 mg/kg Species: Rat, Source: Conclusion by analogy

Data on substances:

Distillates, petroleum, hydrotreated middle:

Exposure routes	Result/Effect
Oral	LD50 > 2000 mg/kg Species: Rat, Source: ECHA
dermal	LD50 > 2000 mg/kg Species: Rabbit, Source: ECHA
by inhalation (aerosol)	LC50 > 5,8 mg/l; 4 h Species: Rat, Method: OECD 403, Source: OECD HPV

11.1.3 Skin corrosion/irritation

Product details:

No skin irritation
(Species: Rabbit, Source: Conclusion by analogy)

Data on substances:

Distillates, petroleum, hydrotreated middle:

No skin irritation
(Species: Rabbit, Method: OECD 404, Source: OECD HPV)

11.1.4 Serious eye damage/eye irritation

Product details:

No eye irritation
(Species: Rabbit, Source: Conclusion by analogy)

Data on substances:

Distillates, petroleum, hydrotreated middle:

No eye irritation
(Species: Rabbit, Method: OECD 405, Source: ECHA)

11.1.5 Respiratory or skin sensitisation

Product details:

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Guinea pig, Test system: Buehler Test, Method: OECD 406, Source: Conclusion by analogy)
Inhalation	No data available.

Data on substances:

Distillates, petroleum, hydrotreated middle:

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Guinea pig, Method: OECD 406, Source: ECHA)

11.1.6 Germ cell mutagenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Carcinogenicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Reproductive toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity - single exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Specific target organ toxicity - repeated exposure

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Aspiration hazard

Assessment:

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

Data on substances:

Distillates, petroleum, hydrotreated middle:

Product can pose an aspiration hazard.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2 Further toxicological information

Hydrolysis product / Impurity: 2-Butanone oxime (MEKO, CAS 96-29-7) is a dermal sensitizer and strongly irritating to the eyes. 2-Butanone oxime is rapidly absorbed from the gastrointestinal tract, upon contact with skin and after inhalation. After oral exposure of rats to MEKO in an acute neurotoxicity study, transient motor incoordination effects were observed. Prolonged exposure of animals led to damages of the olfactory epithelium and to an increase in the incidence of corneal dystrophy and opacities. Systemic effects in repeated dose studies (oral, inhalative) were hemolytic anemia and compensatory and extramedullary hematopoiesis as well as hemosiderosis in spleen and liver and increased levels of methemoglobin. In several of these studies, the effects were reversible. Gross histopathologic alterations were seen in spleen, lung and kidney. After chronic inhalative exposure to high vapor concentrations an increased incidence of hepatocellular carcinomas and adenomas was observed predominantly in male rats and mice. The significance of these results to human users has not been assessed.

Data on substances:

Product of hydrolysis (Methanol):

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

12.2 Persistence and degradability

Assessment:

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

Data on substances:

Product of hydrolysis (Methanol):

Methanol is readily biodegradable.

12.3 Bioaccumulative potential

Assessment:

Polymer component: No adverse effects expected.

12.4 Mobility in soil

Assessment:

Polymer component: insoluble in water.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

none known

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:
Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 Uncleaned packaging

Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14: Transport information

14.1 UN number or ID number

ADR .....: Not applicable
RID.....: Not applicable
IMDG.....: Not applicable
ICAO/IATA .....: Not applicable

14.2 Proper shipping name

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.3 Transport hazard class

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.4 Packing group

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.5 Environmental hazards

Environmentally hazardous: no

14.6 Special precautions for user

Relevant information in other sections has to be considered.

14.7 Maritime transport in bulk according to IMO instruments

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

15.2 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

Australia ..... : **AIIC** (Australian Inventory of Industrial Chemicals):
This product is listed in, or complies with, the substance inventory.

China ..... : **IECSC** (Inventory of Existing Chemical Substances in China):
This product is listed in, or complies with, the substance inventory.

Canada ..... : **DSL** (Domestic Substance List):
This product is listed in, or complies with, the substance inventory.

Philippines ..... : **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):
This product is listed in, or complies with, the substance inventory.

United States of America (USA) ..... : **TSCA** (Toxic Substance Control Act Chemical Substance Inventory):
All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan ..... : **TCSI** (Taiwan Chemical Substance Inventory):
This product is not listed or in compliance with the substance inventory.

European Economic Area (EEA) ..... : **REACH** (Regulation (EC) No 1907/2006):
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

South Korea (Republic of Korea) ..... : **AREC** (Act on Registration and Evaluation of Chemicals; “K-REACH”):
Please approach your regular contact for more detailed information.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on www.wacker.com. WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Classification	Rationale:
Carcinogenicity, Category 2	Calculation method

- End of Safety Data Sheet -