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

1.1. Product identifier

Lack B eco

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

Use of the substance/preparation

Silicone lacquer for coating earmolds and ear impressions

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH
Max-Planck-Straße 31
DE-59423 Unna

Telephone no.	+49 2303 8807-0
Fax no.	+49 2303 8807-29
Information provided by / telephone	Department Research & Development: Fax: +49 2303 8807-562
E-mail address of person responsible for this SDS	sicherheitsdatenblatt@dreve.com

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264.1	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501.1	Dispose of contents/container to industrial incineration plant.

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Chemical characterization

Silicone lacquer curing at air humidity

Hazardous ingredients ***

Hexamethyldisiloxane

CAS No.	107-46-0				
EINECS no.	203-492-7				
Registration no.	01-2119496108-31				
Concentration	>=	50			%
Classification (Regulation (EC) No. 1272/2008)					
	Flam. Liq. 2	H225			
	Aquatic Acute 1	H400			
	Aquatic Chronic 2	H411			

Methylsilane triacetate

CAS No.	4253-34-3				
EINECS no.	224-221-9				
Registration no.	01-2119962266-32				
Concentration	>=	1	<	3	%
Classification (Regulation (EC) No. 1272/2008)					
	Eye Dam. 1	H318			
	Acute Tox. 4	H302			Route of exposure: oral
	Skin Corr. 1C	H314			
ATE	oral		1.600	mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Ensure supply of fresh air. Seek medical advice immediately.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, seek medical advice immediately and show this container or label. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO2, powders, water spray/mist, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. In case the product spills into sewage waters, immediately inform the authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Do not pick up with the help of saw-dust or other combustible substances. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols. Provide good ventilation of working area (local exhaust ventilation if necessary). Take action to prevent static discharges. Avoid skin and eye contact.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store with strong oxidizing agents. Keep away from water.

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Hexamethyldisiloxane

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	dermal	
Concentration	333	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Route of exposure	inhalative	
Concentration	53,4	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	oral	
Concentration	0,27	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	dermal	
Concentration	167	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Route of exposure	inhalative	
Concentration	13,3	mg/m³

Methylsilane triacetate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	31	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	61	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	31	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	61	mg/m³

Predicted No Effect Concentration (PNEC)

Hexamethyldisiloxane

Type of value	PNEC	
Type	Freshwater	
Concentration	0,003	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	8,9	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,089	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,14	mg/kg
Type of value	PNEC	
Type	Secondary poisoning	
Concentration	5,3	mg/kg

Methylsilane triacetate

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	4,8	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,48	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	6,9	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,19	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold eye wash fountain available. Hold emergency shower available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation; The respiratory protection must comply with the relevant CEN standards.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
Appropriate Material nitrile
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid			
Colour	colourless, clear			
Odour	characteristic			
Melting point				
Remarks	not determined			
Freezing point				
Remarks	not determined			
Boiling point or initial boiling point and boiling range				
Value	>	100		°C
Flammability				
evaluation	Not applicable			
Upper and lower explosive limits				
Lower explosion limit		2,1		%(V)
Upper explosion limit		11,5		%(V)
Flash point				
Value		-8		°C
Method	closed cup			
Auto-ignition temperature				
Value	>	200		°C
Decomposition temperature				
Remarks	not determined			
pH value				
Remarks	not determined			
Viscosity				
Remarks	not determined			
Solubility(ies)				
Remarks	not determined			
Partition coefficient n-octanol/water (log value)				
Remarks	not determined			
Vapour pressure				
Value		100		hPa
Temperature		20	°C	
Density and/or relative density				
Value		0,85		g/cm³
Temperature		20	°C	
Relative vapour density				

Remarks not determined

9.2. Other information

Odour threshold

Remarks not determined

Evaporation rate

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks partially miscible

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Solvent content

Value 0,0 %

Other information

None known

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE > 10.000 mg/kg

Method calculated value according to GHS (e.g see UN GHS)

Acute oral toxicity (Components)

Hexamethyldisiloxane

Species	rat		
LD50	>	12160	mg/kg
Method	OECD 401		

Methylsilane triacetate

Species	rat		
LD50		1600	mg/kg
Method	OECD 401		

Acute dermal toxicity

Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)

Hexamethyldisiloxane

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

Acute inhalational toxicity

Remarks: Based on available data, the classification criteria are not met.

Acute inhalative toxicity (Components)

Hexamethyldisiloxane

Species	rat			
LC50	appr.	106		mg/l
Duration of exposure		4	h	
Method	OECD 403			

Skin corrosion/irritation

evaluation: irritant

Remarks: The classification criteria are met.

Skin corrosion/irritation (Components)

Methylsilane triacetate

Species	rabbit
evaluation	corrosive
Method	OECD 404

Serious eye damage/irritation

evaluation: irritant

Remarks: The classification criteria are met.

Serious eye damage/irritation (Components)

Methylsilane triacetate

Species	rabbit
evaluation	corrosive
Method	OECD 405

Sensitization

Remarks: Based on available data, the classification criteria are not met.

Subacute, subchronic, chronic toxicity

Remarks: not determined

Mutagenicity

Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks: Based on available data, the classification criteria are not met.

Repeated exposure

Remarks: Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity

General information

not determined

Fish toxicity (Components)

Hexamethyldisiloxane

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	0,46		mg/l
Duration of exposure	96	h	

Hexamethyldisiloxane

Species	Fathead minnow (Pimephales promelas)		
NOEC	0,029		mg/l
Duration of exposure	32	d	
Method	OECD 210		

Methylsilane triacetate

Species	zebra fish (Brachydanio rerio)		
LC50	> 500		mg/l
Duration of exposure	96	h	
Method	Regulation (EC) No. 440/2008, Annex, C.1		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Daphnia toxicity (Components)

Hexamethyldisiloxane

Species	Daphnia magna		
NOEC	0,3		mg/l
Duration of exposure	21	d	
Method	OECD 211		

Methylsilane triacetate

Species	Daphnia magna		
EC50	> 500		mg/l

Duration of exposure	48	h	
Method	Regulation (EC) No. 440/2008, Annex, C.2		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Methylsilane triacetate

Species	Daphnia magna		
NOEC	>=	100	mg/l
Duration of exposure	21	d	
Method	OECD 211		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Algae toxicity (Components)

Hexamethyldisiloxane

Species	Pseudokirchneriella subcapitata		
ErC50	>	0,55	mg/l
Duration of exposure	95	h	
Method	OECD 201		

Methylsilane triacetate

Species	Pseudokirchneriella subcapitata		
EC50	>	500	mg/l
Duration of exposure	72	h	
Method	Regulation (EC) No. 440/2008, Annex, C.3		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Bacteria toxicity (Components)

Hexamethyldisiloxane

Species	activated sludge		
NOEC	>=	100	mg/l
Duration of exposure	3	h	
Method	OECD 209		

Methylsilane triacetate

Species	activated sludge		
EC10	>	100	mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability

General information

not determined

Biodegradability (Components)

Hexamethyldisiloxane

Value	2		%
Duration of test	28	d	
evaluation	not readily degradable		

Methylsilane triacetate

Value	74		%
Duration of test	21	d	
evaluation	not readily degradable		

12.3. Bioaccumulative potential

General information

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)

Hexamethyldisiloxane

log Pow	5,06	
Temperature	20	°C

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Toxic to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.
Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information ***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***	Air transport ICAO/IATA ***
14.1. UN number or ID number	1993	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane, Dibutyltin dilaurate)	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane, Dibutyltin dilaurate)	FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane, Dibutyltin dilaurate)
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	II	II	II
Special provision	640D		
Remarks		The product can be transported in accordance with IMDG Code 2.10.2.7, provided packaging not more than 5l / 5kg.	
Limited Quantity	1 l	1 l	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	
Tunnel restriction code	D/E		

SECTION 15: Regulatory information

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

Restriction according to annex XVII to regulation (EU) No 1907/2006

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 3.

Ingredients with restrictions according to Annex XVII Regulation (EU) No. 1907/2006

Hexamethyldisiloxane

The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No.

3.
The product is subject to restrictions according to Annex XVII Regulation (EU) No. 1907/2006: Entry No. 40.

Other information

All components are contained in the TSCA inventory or exempted.

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.