

# Kurt J. Lesker Company

## SAFETY DATA SHEET

### KJL704

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

Product name KJL704  
 Product number 704BB, 704CA, 704CP, 704CA-T, 704CA-E, 704CA-A  
 Internal identification Replaces F-3000-10

##### Recommended use of the chemical and restrictions on use

Application Vacuum pump lubricant  
 Uses advised against This product is designed for use by technically competent persons. Any use of this product, other than for its stated use, should not be attempted without expert review.

##### Details of the supplier of the safety data sheet

Supplier Kurt J Lesker Company  
 Manufacturer Kurt J Lesker Company  
 1925 Route 51  
 Jefferson Hills, PA 15025  
 +1 412-387-9200  
 Kurt J Lesker Company LTD  
 United Kingdom  
 15-16 Burgess Road  
 Hastings, East Sussex, TN35 4NR  
 England  
 Customer Service: +44 (0) 1424 458100  
 msds@lesker.com

##### Emergency telephone number

Emergency telephone North America [USA, Canada, Mexico]: 1-866-519-4752  
 Mainland China: (+86) 4001 2001 74  
 Europe: {int'l call prefix}-1-760-476-3961  
 Asia Pacific: {int'l call prefix}-1-760-476-3960  
 Middle East & Africa: {int'l call prefix}-1-760-476-3959

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

Physical hazards Not Classified  
 Health hazards Eye Irrit. 2A - H319  
 Environmental hazards Aquatic Chronic 4 - H413

##### Label elements

**KJL704****Pictogram**

<b>Signal word</b>	Warning
<b>Hazard statements</b>	H319 Causes serious eye irritation. H413 May cause long lasting harmful effects to aquatic life.
<b>Precautionary statements</b>	P264 Wash contaminated skin 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. P337+P313 If eye irritation persists: Get medical advice/ attention. P502 Refer to manufacturer/ supplier for information on recovery/ recycling.

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**3. Composition/information on ingredients****Mixtures**

<b>Tetramethyltetraphenyltrisiloxane</b> CAS number: 3982-82-9	<b>0 - 100%</b>
<b>Classification</b> Eye Irrit. 2A - H319	
<b>Tetraphenyldimethyldisiloxane</b> CAS number: 807-28-3	<b>0 - 100%</b>
<b>Classification</b> Aquatic Chronic 4 - H413	
<b>Alkylphenylsiloxane</b> CAS number: 6904-66-1	<b>0 - 100%</b>
<b>Classification</b> Acute Tox. 4 - H312	

The Full Text for all Hazard Statements are Displayed in Section 16.

**Composition comments**      The exact percentage is withheld as a trade secret in accordance with 29 CFR 1910.1200.

**4. First-aid measures****Description of first aid measures**

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

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<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
<b>Skin Contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.
<b><u>Most important symptoms and effects, both acute and delayed</u></b>	
<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	Irritating to eyes.
<b><u>Indication of immediate medical attention and special treatment needed</u></b>	
<b>Notes for the doctor</b>	Treat symptomatically.

**5. Fire-fighting measures****Extinguishing media**

<b>Suitable extinguishing media</b>	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

**Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

**Advice for firefighters**

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk.
<b><u>Environmental precautions</u></b>	
<b>Environmental precautions</b>	Avoid discharge to the aquatic environment.

**KJL704****Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.
<b>Reference to other sections</b>	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

**7. Handling and storage****Precautions for safe handling**

<b>Usage precautions</b>	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment.
<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

<b>Storage precautions</b>	Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
<b>Storage class</b>	Chemical storage.
<b>Specific end uses(s)</b>	
<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.

**8. Exposure Controls/personal protection****Exposure controls****Protective equipment**

<b>Appropriate engineering controls</b>	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
<b>Eye/face protection</b>	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
<b>Hand protection</b>	No specific hand protection recommended.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent repeated or prolonged skin contact.
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

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<b>Respiratory protection</b>	Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.
<b>Environmental exposure controls</b>	Keep container tightly sealed when not in use.

**9. Physical and Chemical Properties**Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Color</b>	Colorless to pale yellow.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	215°C @ 0.5 mm Hg
<b>Flash point</b>	> 214°C COC (Cleveland open cup).
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	2x10 <sup>-8</sup> mm Hg @ 25°C
<b>Relative density</b>	~ 1.07 @ 25°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	21.6 cSt @ 40°C
<b>Molecular weight</b>	484

**10. Stability and reactivity**

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.

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**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

<b>11. Toxicological information</b>
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Information on toxicological effectsAcute toxicity - oral

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 11,000.0

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

Skin corrosion/irritation

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

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitization

Respiratory sensitization Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Carcinogenicity

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

IARC carcinogenicity None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** No specific symptoms known.

**Ingestion** No specific symptoms known.

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<b>Skin Contact</b>	No specific symptoms known.
<b>Eye contact</b>	Irritating to eyes.
<b>Route of entry</b>	Ingestion Inhalation Skin and/or eye contact
<b>Target Organs</b>	No specific target organs known.

**12. Ecological Information**

**Ecotoxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

Toxicity

**Toxicity** Based on available data the classification criteria are not met.

Persistence and degradability

**Persistence and degradability** The degradability of the product is not known.

Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

Mobility in soil

**Mobility** No data available.

Other adverse effects

**Other adverse effects** None known.

**13. Disposal considerations**Waste treatment methods

**General information** The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

**14. Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards

**KJL704****Environmentally Hazardous Substance**

No.

**Special precautions for user**

Not applicable.

Transport in bulk according to Not applicable.  
Annex II of MARPOL 73/78  
and the IBC Code

**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

**SARA 313 Emission Reporting**

None of the ingredients are listed or exempt.

**CAA Accidental Release Prevention**

None of the ingredients are listed or exempt.

**FDA - Essential Chemical**

None of the ingredients are listed or exempt.

**FDA - Precursor Chemical**

None of the ingredients are listed or exempt.

**SARA (311/312) Hazard Categories**

None of the ingredients are listed or exempt.

**OSHA Highly Hazardous Chemicals**

None of the ingredients are listed or exempt.

**US State Regulations****California Proposition 65 Carcinogens and Reproductive Toxins**

None of the ingredients are listed or exempt.

**California Air Toxics "Hot Spots" (A-I)**

None of the ingredients are listed or exempt.

**California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

**California Directors List of Hazardous Substances**

None of the ingredients are listed or exempt.

**Massachusetts "Right To Know" List**

None of the ingredients are listed or exempt.



**KJL704****Rhode Island "Right To Know" List**

None of the ingredients are listed or exempt.

**Minnesota "Right To Know" List**

None of the ingredients are listed or exempt.

**New Jersey "Right To Know" List**

None of the ingredients are listed or exempt.

**Pennsylvania "Right To Know" List**

None of the ingredients are listed or exempt.

**Inventories****EU - EINECS/ELINCS**

All the ingredients are listed or exempt.

**Canada - DSL/NDSL**

All the ingredients are listed or exempt.

**US - TSCA**

All the ingredients are listed or exempt.

**US - TSCA 12(b) Export Notification**

None of the ingredients are listed or exempt.

**Australia - AICS**

All the ingredients are listed or exempt.

**Japan - MITI**

All the ingredients are listed or exempt.

**Korea - KECI**

All the ingredients are listed or exempt.

**China - IECSC**

All the ingredients are listed or exempt.

**Philippines - PICCS**

All the ingredients are listed or exempt.

**New Zealand - NZIOC**

All the ingredients are listed or exempt.

**16. Other information**

<b>Training advice</b>	Only trained personnel should use this material.
<b>Revision date</b>	9/14/2016
<b>Revision</b>	5
<b>Supersedes date</b>	5/26/2016
<b>SDS No.</b>	F-3000-20
<b>Hazard statements in full</b>	H312 Harmful in contact with skin. H319 Causes serious eye irritation. H413 May cause long lasting harmful effects to aquatic life.

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End of SDS

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.