SAFETY DATA SHEET

PRODUCT NAME: CVC 5 Diffusion Pump Fluid

PRODUCT CODE: CVC 5

1.IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

1.1 Product Identifier

TRADE NAME	CVC 5
OTHER NAMES	Silicone diffusion pump fluid
CHEMICAL SYNONYMS	

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

IDENTIFIED USES Vacuum pump fluid

1.3 Details of the supplier of the safety data sheet

SUPPLIER:

GBR TECHNOLOGY LTD
UNIT 42 EASTER PARK
BENYON ROAD
SILCHESTER
READING, BERKS RG7 2PQ
Tel: 0118 9820567 Fax: 0118 9820590

Email address of person responsible info@gbrtech.co.uk

1.4 Emergency telephone number

SUPPLIER:	0118 9820567
HOURS OF OPERATION:	Monday to Friday 0830 – 17:00 HRS
INFORMATION LIMITATIONS:	Not applicable

2. HAZARD INDENTIFICATION

2.1 Classification of the substance or mixture

PRODUCT DEFINITION: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye irritation (Category 2), H319

2.2 Label elements



PICTOGRAM

SIGNAL WORD:	Warning
HAZARD STATEMENTS:	H319 Causes serious eye irritation
PRECAUTIONARY STATEMENTS: (prevention)	P264 Wash contaminated skin thoroughly after handling P280 Wear eye/face protection P233 Keep container tightly closed P281 Use personal protective equipment as required
PRECAUTIONARY STATEMENTS: (response)	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 attention/advice P301+P330 IF SWALLOWED: Rinse mouth
PRECAUTIONARY STATEMENTS: (disposal)	P501 Dispose of contents/container to hazardous or special waste collection point

3. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Mixture

Name	CAS No.	Conc. (% w/w)
Pentaphenyltrimethyltrisiloxane	3390-61-2	> 90

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove and contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed or symptoms occur – seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: No known significant effects or critical hazards
Inhalation: No known significant effects or critical hazards
Skin Contact: No known significant effects or critical hazards
Ingestion: No known significant effects or critical hazards

Over-exposure signs/symptoms:

Eye contact: No specific data
Inhalation: No specific data
Skin Contact: No specific data
Ingestion: No specific data

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments: No specific treatment.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire. Foam (specifically trained personnel only), water fog (specifically trained personnel only), dry chemical powder, carbon dioxide, other inert gases (subject to regulation), sand or earth.
Unsuitable extinguishing media: Do not use direct water jets on the burning product: they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2 Specific hazards arising from the substance or mixture

Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products: Carbon oxides (CO, CO_2), smoke and irritating vapours as products of incomplete combustion.

5.3 Advice for firefighters

Special precautions for firefighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for firefighters: Fire-fighter should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information: Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For Emergency Responders: If specialised clothing is required to deal with spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental Precautions: Avoid dispersal of spilt material and run off and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

6.3 Methods and Materials for containment and cleaning up

Small Spill: Stop leak if without risk. Move containers away from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers away from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

6.4. Reference to other sections: See Section 1 for emergency contact information.
See section 8 for information on appropriate personal protective equipment
See section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective Measures: Put on appropriate personal protective equipment (see Section 8)

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in the areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink.

Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations: Please see Exposure Scenario(s)

Industrial sector specific solutions: Not available

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control Parameters

OCCUPATIONAL EXPOSURE LIMITS:

Predicted effect concentrations

No PECs available

8.2 Exposure Controls

Appropriate Engineering Controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual Protection Measures

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye / Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashed, mists or dusts.

Skin Protection

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. > 8 hours (breakthrough time): neoprene, nitrile, Viton®

Body Protection: Personal Protective Equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure

	levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Organic vapour filter.
Environmental Exposure Controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protections legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical State:	Colourless clear liquid
Colour:	Colourless and Bright
Odour:	Odourless
Odour Threshold:	Not Available
pH:	Not Available
Melting / Freezing point:	Not available
Initial Boiling point and boiling range:	Not Available
Flash Point:	minimum 240°C
Evaporation Rate:	Not Available
Flammability:	Low Fire Hazard
Burning Time:	Not Applicable
Burning Rate:	Not Applicable
Upper / Lower flammability or explosive limits:	Not Available
Vapour Pressure:	Very low
Vapour Density:	Not Available
Relative Density:	1.060 – 1.090 @ 25°C
Solubility (ies):	Insoluble in Water
Partition Coefficient: n-octanol/water:	Not Available
Auto-Ignition Temperature:	Not Available
Decomposition Temperature:	Not Available
Explosive Properties:	Do not cut, weld heat, drill or pressurise empty container. Containers may explode in heat of fire.
Oxidising Properties:	Not Available
Viscosity:	175 mm^2/s @ 25°C typical
Pour Point:	Not available

9.2 Other Information

No Additional Information

10. STABILITY AND REACTIVITY

10.1	Reactivity:	No specific test date related to reactivity available for this product or its ingredients
10.2	Chemical Stability:	The product is stable
10.3	Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4	Conditions to Avoid:	No specific data
10.5	Incompatible Materials:	Strong alkalis and oxidising agents
10.6	Hazardous decomposition products:	May release COx, smoke and irritating vapours when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological effects

Potential acute health effects:

Eye Contact:	Causes serious eye irritation
Inhalation:	May cause respiratory irritation
Skin Contact:	Causes skin irritation
Ingestion:	May cause respiratory irritation
Specific target organ toxicity Single exposure:	May cause respiratory irritation
Other Information:	Not Available

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Conclusion / Summary: Not Available

12.2 Persistence and degradability
Conclusion / Summary: Not Available

12.3 Bioaccumulative Potential
Not Available

12.4 Mobility in Soil
Soil /water partition coefficient (K_{OC}): Not Available
Mobility: Not Available

12.5 Results of PBT and vPvB assessment
PBT: Not Applicable
vPvB: Not Applicable

12.6 Other adverse effects: No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste Treatment Methods
Product

Methods of Disposal: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non – recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Packaging
Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled, Incineration or landfill should only be considered when recycling is not feasible.
Special Precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR / RID	AND / ADNR	IMDG	IATA
14.1 UN Number	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 Proper Shipping Name	-	-	-	-
14.3 Transport Hazard Class(es)	-	-	-	-
14.4 Packing Group	-	-	-	-
14.5 Environmental Hazards	No	No	No	No
14.6 Special Precautions for user	Not Available	Not Available	Not Available	Not Available
Additional Information	-	-	-	-

14.7 Transport in Bulk according To Annex II of MARPOL 73/78 and The IBC Code: Not Available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV – List of substances subject to authorisation
Substances of very high concern: None of the components are listed.
Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not Applicable

16. OTHER INFORMATION

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