

SAFETY DATA SHEET**PRODUCT NAME:** CVC 4 Diffusion Pump Fluid**PRODUCT CODE:** CVC 4**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY****1.1 Product Identifier**

TRADE NAME	CVC 4
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 For Industrial use only
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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
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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 IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification according to Regulations (EC) No: 1272/2008

Acute tox Dermal (Cat 4)
Skin corr/irrit (Cat 2)
Serious eye damage (Cat 2A)

PRODUCT DEFINITION: Mixture

2.2 Label elements

PICTOGRAM



SIGNAL WORD Warning

HAZARD STATEMENTS:

H312 Harmful in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

PRECAUTIONARY STATEMENTS: (prevention)

P261 Avoid breathing dust/ fume / gas/ mist/ vapours /spray
P264 Wash hands thoroughly after handling, wash skin thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/clothing/eye/face protection

PRECAUTIONARY STATEMENTS: (response)

P362+P363 Take off contaminated clothing and wash before reuse
P302 + P352 IF ON SKIN: Wash with plenty of water
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P332 + P313 IF skin irritation occurs: Get medical attention
P337 + P313 IF eye irritation persists: Get medical attention

PRECAUTIONARY STATEMENTS: (storage)

P403 + P233 Store in a well ventilated place. Keep container tightly closed

PRECAUTIONARY STATEMENTS: (disposal) P501 Dispose of contents/container to hazardous or special waste collection point

2.3 Other hazards

Endocrine disrupting properties:

The mixture does not contain components considered to have endocrine disrupting properties

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE/MIXTURE: Mixture

3.2 Mixtures

Mixture of substances below

Name	CAS/EC No:	Conc. (% w/w)
Tetramethyltetraphenyltrisiloxane	CAS: 3982-82-9 EC: 223-620-5	70+/-10%
Tetraphenyldimethyldisiloxane	CAS: 807-28-3 EC: 212-361-3	19+/-5%
Hexamethyl tetraphenyltetrasiloxane	CAS: 6904-66-1 EC: 230-013-9	11+/-5%

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 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/symptom:

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, CO₂), 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 fire-fighters: 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.
- 5.4 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 of 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.

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 protection 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**9.1 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:	-35°C typical
Initial Boiling point and	

boiling range:	Not Available
Flash Point:	>210°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 – 1.080 @ 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 (Kinematic):	~40cSt @ 25°C
Pour Point:	Not available

9.2 Other Information
No Additional Information

10. STABILITY AND REACTIVITY

- 10.1 Reactivity: Not classified as a reactivity hazard
- 10.2 Chemical Stability: The product is stable under normal storage conditions
- 10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to Avoid: Overheating/exposure to open flame
- 10.5 Incompatible Materials: Strong alkalis and oxidising agents
- 10.6 Hazardous decomposition products: May release CO_x, benzene, 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

11.2 Information on other hazards

Endocrine disrupting properties:
The mixture does not contain components considered to have endocrine disrupting properties

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 Endocrine disrupting properties
The mixture does not contain components considered to have endocrine disrupting properties
- 12.7 Other adverse effects
See Section 15 for safety, health, safety and environmental regulations/legislation specific for the substance or mixture

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 applicable

- 14.8 Transport/additional information
UN 'Model Regulation'
Not applicable

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Prepared according to regulation (EU) 878/2020
 - Directive 2012/18/EU
 - Named dangerous substances-ANNEX I:
None of the ingredients are listed
 - Seveso category:
Not applicable
 - Qualifying quantity(tonnes)for the application of lower-tier requirements:
Not applicable
 - Qualifying quantity (tonnes)for the application of upper-tier requirements:
Not applicable
 - Regulation (EU)2019/1021 on persistent organic pollutants(POP):
None of the ingredients are listed
 - Regulation (EU)No. 649/2012:
None of the ingredients are listed
 - Regulation (EU)2019/1148
Annex I- RESTRICTED EXPLOSIVES PRECURSORS(Upper limit value for the purpose of licensing under Article 5(3)):
None of the ingredients are listed
 - Annex II- REPORTABLE EXPLOSIVES PRECURSORS:
None of the ingredients are listed
 - Regulation (EC)No. 273/2004 on drug precursors:
None of the ingredients are listed
 - Regulation(EC)No. 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors:
None of the ingredients are listed
 - Regulation (EC)No. 1005/2009 on substances that deplete the ozone layer -ANNEX I (Ozone depleting potential):
None of the ingredients are listed
 - Other regulations, limitations and prohibitive regulations
 - SVHC Candidate List of REACH Regulation Annex XIV Authorisation (21/1/2025):
None of the ingredients are listed
 - REACH Regulation Annex XVII Restriction(19/9/2024):
None of the ingredients are listed
 - REACH Regulation Annex XIV Authorisation List (13/11/2023):
None of the ingredients are listed
- 15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION**Abbreviations and acronyms:**

ADR: European Agreement Concerning the International Carriage of Dangerous goods by road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Further Information:

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Date of Issue / Date of revision:	23 rd May 2025
Date of Previous Issue Version:	2 nd April 2025
Version:	6
Prepared by:	ADF
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