

SECTION 1
CHEMICAL IDENTIFICATION OF THE SUBSTANCE/PREPARATION

PRODUCT NAME: Custom Organic Standard: Perfluorotributylamine, also known as v-kit GCMS Autotune Standard or PFTBA
COMMON NAME OR SYNONYMS: Heptacosafuorotributylamine

Manufacturer/Supplier

V:KIT Ltd
16, John Bradshaw Court, Congleton Business Park
Congleton CW12 1LB UK
Tel: +44 (0) 1260 274 266

SECTION 2
COMPOSITION AND INFORMATION ON INGREDIENTS

INGREDIENT	%	TLV UNITS	CAS #	EINECS
N(CF ₂ CF ₂ CF ₂ CF ₃) ₃	100	N/A	311-89-7	206-223-1

SECTION 3
HAZARDS IDENTIFICATION

Irritant. Irritating to eyes, respiratory system and skin.

SECTION 4
FIRST AID MEASURES

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.
Inhalation Exposure: If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.
Eye Exposure: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

SECTION 5
FIRE AND EXPLOSION DATA

Flash Point N/A
Autoignition Temp N/A
Flammability N/A

Extinguishing Media: Suitable: Noncombustible. Use extinguishing media appropriate to surrounding fire conditions.

Firefighting: Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): Emits toxic fumes under fire conditions.

SECTION 6
ACCIDENTAL RELEASE MEASURES

Procedure(s) of Personal Precaution(s): Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Methods for Cleaning up: Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7
HANDLING AND STORAGE

Handling: User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

SECTION 8
EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment: Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Hand: Compatible chemical-resistant gloves. Eye: Chemical safety goggles.

General Hygiene Measures: Wash thoroughly after handling.

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Physical State: Liquid
Molecular Weight	671.1 AMU
pH	N/A
BP/BP Range	178 °C 760 mmHg
MP/MP Range	- 52.0 °C
Freezing Point	N/A
Vapor Pressure	1.3 mmHg 25 °C
Vapor Density	23.3 g/l
Saturated Vapor Conc.	N/A
SG/Density	1.89 g/cm ³

**SECTION 10
STABILITY AND REACTIVITY DATA**

Stability: Stable. Materials to Avoid: Finely powdered metals, Alkali metals.

Hazardous Decomposition Products: Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Hydrogen fluoride, May also form perfluoroisobutylene.

Hazardous Polymerization: Hazardous Polymerization: Will not occur

**SECTION 11
TOXICOLOGICAL INFORMATION**

Route of Exposure: Skin Contact: Causes skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: Causes eye irritation. Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Toxicity Data

RTECS Number: YA1000000

Oral Rat > 10000 mg/kg LD50

Intravenous Mouse 12 GM/KG LD50

**SECTION 12
ECOLOGICAL INFORMATION**

No data available.

**SECTION 13
DISPOSAL CONSIDERATIONS**

Appropriate Method of Disposal of Substance or Preparation: Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

**SECTION 14
TRANSPORT INFORMATION****DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

**SECTION 15
OTHER REGULATORY INFORMATION****EU ADDITIONAL CLASSIFICATION**

Symbol of Danger: Xi

Indication of Danger: Irritant.

R: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S: 26-36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: Yes

**SECTION 16
OTHER INFORMATION**

V:KIT LTD. ASSUMES NO RESPONSIBILITY AND MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN. INDICATED SAFETY MEASURES MAY NOT REFLECT ALL APPROPRIATE SAFETY MEASURES. V:KIT LTD. ASSUMES THAT ONLY QUALIFIED INDIVIDUALS, TRAINED AND FAMILIAR WITH PROCEDURES SUITABLE TO THIS PRODUCT, WILL HANDLE THIS PRODUCT.

References:

The Sigma/Aldrich Library of Chemical Safety Data, Ed.I, (1985)

Registry of Toxic Effects of Chemical Substances, 1981-82

Patty's Industrial Hygiene and Toxicology, 3rd Revised Edition, Vol. 2A, 1981

Threshold Limit Values and Biological Exposure Indices for 1988-89, ACGIH

Dangerous properties of Industrial Materials by N. Irving Sax and Richard J. Lewis, Sr.(Ninth Edition) *