



## Material Safety Data Sheet

# **1. PRODUCT AND COMPANY IDENTIFICATION:**

PRODUCT NAME	Inhibited Transformer Insulating Oils
CHEMICAL NAME	VELVEX 12463 IT (Inhibited Transformer Oil meeting BIS 12463/1988 Specification),
	VELVEX 60296 HGIT, VELVEX 148 IT, VELVEX 296 IT, VELVEX 60296 TIT
MANUFACTURER	Nandan Petrochem Limited,
	B-601, Lotus Corporate Park, Ram Mandir Lane, Jay coach Junction, Western
	Express Highway, Goregaon East, Mumbai -400063 India.
	Tel:91-22-42577200, 02232031075,Fax  +91-22-25545864
	Email:info@nandangroup.com

### 2. Composition and Ingredients

Components	CAS No.	Range in %
Petroleum Distillate	64742-55-8	0 to 100%
Hydro treated – Light	64742-53-6	0 to 100%
Refined Mono Aromatics	84961-70-6	0 to 20%
DBPC	128-37-0	0.0 to 0.4%

This product is NOT HAZARDOUS according to OSHA 29 CFR 1910.1200

Eyes	Expected to cause no more than minor eye irritation
Oral	Ingestion of this product and subsequent vomiting can result in aspiration
	into the lungs, causing chemical pneumonia and lung damage
Inhalation	Breathing the vapour or mist at concentrations in air that exceed the ACGIH
	TLV can cause respiratory irritation or discomfort
Skin	Expected to cause no more than minor skin irritation. Prolonged or
	frequently repeated contact may cause more severe irritation or may cause
	the skin to become cracked or dry from the defatting action of this material
Long Term Toxic	The base oil component(s) are not expected to be carcinogenic.
Effects	

# 3. Hazards Identification





# Material Safety Data Sheet

# 4. First Aid Measures

Eyes	Flush eyes immediately with fresh water for several minutes while holding the eyelids
·	open. If irritation persists, see a doctor
Skin	Wash skin thoroughly with soap and water. If skin irritation persists or a rash develops
	as a result of excessive contact, see a doctor. Launder contaminated clothing
Ingestion	Do not induce vomiting. Aspiration of the material can cause serious lung injury such as
	chemical pneumonia. Call a doctor immediately. If spontaneous vomiting occurs, keep
	head below hips to prevent aspiration and monitor for breathing difficulty. Never give
	anything by mouth to an unconscious person.
Inhalation	If respiratory irritation or any signs or symptoms as described in this MSDS occur,
	mover the person to fresh air. If any of these effects continue, see a doctor
Advice to	This product may present an aspiration hazard. See related comments in this MSDS. If
Doctor	spontaneous vomiting has occurred after ingestion, the patient should be monitored for
	difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to
	48 hours

#### **5.** Fire Fighting Measures

5. The Fighting Measures	
Ignition Temperature, °C	Not determined
Flammable Limits (% by Volume)	Not determined
Flash Point, °C	More than 135 (COC)
<b>Fire Extinguishing Agents</b> According to the US National Fire Protection Associa	
	Guide, use water spray, dry chemical, foam or carbon dioxide.
	Water or foam may cause frothing. Use water to cool fire-
	exposed containers. If a leak or spill has not ignited, use water
	spray to disperse the vapours and to provide protection for
	personal attempting to stop the leak
Explosion Hazards	For fires involving this material, do not enter any enclosed or
	confined space without self-contained breathing apparatus to
	protect against the hazardous effects of combustion products or
	oxygen deficiency
6. Accidental Release Measur	P\$

#### **6.** Accidental Kelease Measures

In case of Spill	Stop the source of the leak or release and contain spill if possible. Ventilate the
	area. Use respirator and protective clothing as discussed in this MSDS. Cover spill
	with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly.
	Sweep up and place in a disposable container. Scrub contaminated area with
	detergent and water using a stiff broom. Pick up liquid with additional absorbent
	and place in a disposable container. Prevent contamination of groundwater or
	surface water





### Material Safety Data Sheet

7. Handling and Storage

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

Misuse of empty containers can be hazardous. DO NOT cut, weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

### 8. Exposure Control/Personal Protection

Eyes	No special eye protection is usually necessary. Safety glasses, chemical type goggles, or face shied appropriate where splashing or misting is expected during routine operations or spill clean-up.
Skin	Exposed employees should exercise reasonable personal cleanliness; this includes cleansing exposed skin several times daily with soap and water and laundering or dry cleaning soiled work clothing at least daily.
Inhalation	Respiratory protection is normally not required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standard(s), the use of an approved respirator is recommended. Wear approved respiratory protection such as toxic dust, mist and fume respirator
Ventilation	Use adequate ventilation to keep the airborne concentrations of this material below the ACGIH TLV for mineral oil mists. Local exhaust ventilation and/or enclosure of the processes is preferred in these cases
<b>Exposure Limits</b>	The ACGIH TLV for mineral oil mists is $5 \text{ mg/m}^3$ for a daily 8-hour exposure

### 9. Physical and Chemical Properties

Note: The following data may represent a range of approximate or typical values for products in the same family. Precise technical information is provided in Product Bulletins and can be obtained from your Marketing Representative.

your marketing Representative.	
Appearance and Odor	Clear white, odorless
Boiling Point	Not determined
Vapor Pr (mm HG @ 25 °C)	Not determined
Density( kg/l at 29.5 °C)	0.89 Max.
Vapor Density (Air=1)	Not determined
Undiluted product's pH	Not applicable
Solubility in Water	Negligible
Percent Volatile by Volume	Not determined
Evaporation	Not determined
Viscosity	Max. 27 mm <sup>2</sup> /s at 27°C For Velvex 12463 IT,
	Max 16.5 mm <sup>2</sup> /s at 40°C for Velvex 296 IT and Velvex 148 IT
	Max 12.0 mm <sup>2</sup> /s at 40°C for Velvex 60296 HGIT and Velvex
	60296 TIT





	Material Safety Data Sheet			
10. Stability and Reactivity				
Hazardous Polymerizations DO N		ns DO NOT OCCUR		
Products of Combustion Carb		Carbon monoxide, carbon dioxide, and aldehydes and ketones,		
		combustions products of nitrogen and sulfur		
Condition	ns to Avoid	Strong oxidizers as chlorates, nitrates, peroxides etc		
11. Toxicological Information				
General		available toxicological information the oil produces no adverse effects on health perly handled and used.No special precautions are suggested beyond attention to		
		ygiene including laundering any oil soaked clothing and washing contact		
		ith soap and water.		
12. Ecological Information				
Environm	nental	This product is expected to have low aquatic toxicity and is not considered		
Effects	1	p represent a long-term danger to the aquatic environment.		
		his material may present environmental risks common to oil spills		
13.	13. Disposal Considerations			
Waste Dis	Waste Disposal Place contamined materials are disposable containers and dispo			
		nanner consistent with applicable regulations. Contact local environmental		
or health auth		r health authorities for approved disposal of this material		
Remarks		his material may present environmental risks common to oil spills.		
		Contact your local oil spill response group and applicable government		
		gencies if a spill occurs		
	Transport Info			
	tation of Dange			
UN Number		Not Applicable		
)	is Goods Class	Not applicable		
Hazchem		Not applicable		
Additiona	al Information	None Determined		
		Tone Determined		

## **15. Regulatory Information**

<b>Respirator Information</b>	In the absence of local approval authorities/standard regulations.
	Respirators must meet central standard for approved respirators

## **16. Other Information** — No specific notes on this product.

**Note**: The above data is based on the information presently available to us. The data provided is without any warranty, express or implied, regarding its reactions and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assure liability for loss, injury, damage or expense resulting from improper use of this product.