

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.


Issue date 11/02/2015

Reviewed on 11/02/2015

1 Identification

- **Product Identifier**
- **Trade name: Reclaimed Perfluorotripropylamine (3M FC-3283)**
- **Product Number: ng-FC-3283R**
- **CAS Number:**
338-83-0
- **EC number:**
206-420-2
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** Reclaimed Perfluorotripropylamine (3M FC-3283 R)
- **Application of the substance / the mixture:**
Semiconductor Grade Lubricant for Gasket & O-ring Installation
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
NuGeneration Technologies, LLC (dba NuGenTec)
1155 Park Avenue, Emeryville, CA 94608
salesteam@nugentec.com www.nugentec.com
1-888-996-8436 or 1-707-820-4080 for product information
- **Emergency telephone number:**
PERS Emergency Response: Domestic and Canada - 1-800-633-8253, International 1-801-629-0667

2 Hazard(s) Identification

- **Classification of the substance or mixture:**
The substance is not classified according to the Globally Harmonized System (GHS).
 - **Label elements:**
 - **GHS label elements** Non-Regulated Material
 - **Hazard pictograms:** Non-Regulated Material
 - **Signal word:** Non-Regulated Material
 - **Hazard statements:** Non-Regulated Material
 - **Classification system:**
 - **NFPA ratings (scale 0 - 4)**
- 

Health = 1

Fire = 0

Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
- | | |
|------------|---|
| HEALTH | 1 |
| FIRE | 0 |
| REACTIVITY | 0 |

Health = 1

Fire = 0

Reactivity = 0
- **Hazard(s) not otherwise classified (HNOC):** None known

3 Composition/Information on Ingredients

- **Chemical characterization: Substance**
- **CAS No. Description**
338-83-0 Perfluoro-tri-n-propylamine

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- **Identification number(s)**
- **EC number:** 206-420-2

4 First-Aid Measures

- **Description of first aid measures:**
- **General information:** No special measures required.
- **After inhalation:** Generally the product does not irritate with inhalation.
- **After skin contact:** Wash with soap and water.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media:**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture:**
If incinerated, product will release the following toxic fumes: Hydrogen Fluoride and Perfluoroisobutylene (PFIB).
- **Advice for firefighters:**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of the collected material according to regulations.
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** No special measures required.

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- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities:**
Store away from powdered metals, Alkali metals and Alkaline Earth metals.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.
- **Components with occupational exposure limits:**
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Goggles recommended during refilling.

9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Liquid
Color:	Clear, colorless
Odor:	Odorless
Odor threshold:	Not determined.
- **pH-value:** Acidic

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· Change in condition	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	123-133 °C (253-271 °F)
· Flash point:	None
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	Not determined
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure @ 25 °C (77 °F):	13 hPa (10 mm Hg)
· Density @ 20 °C (68 °F):	1.741 g/cm ³ (14.529 lbs/gal)
· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate @ 20 °C (68 °F):	<1 (BUOAC=1)
· Solubility in / Miscibility with:	
Water:	Nil
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Organic solvents:	0.0 %
· Other information:	No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Powdered metals, Alkali metals and Alkaline Earth metals.
- **Hazardous decomposition products:** Hydrogen Fluoride and Perfluoroisobutylene (PFIB).

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11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

338-83-0 Perfluoro-tri-n-propylamine

Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	>31.8 mg/l (rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The substance is not subject to classification.

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

- **NTP (National Toxicology Program):**

Substance is not listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

Substance is not listed.

12 Ecological Information

- **Toxicity:**

- **Aquatic toxicity:**

338-83-0 Perfluoro-tri-n-propylamine

EC50	>100 mg/l (Water flea)
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- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods:**
- **Recommendation:**
*Smaller quantities can be disposed of with household waste.
 Observe all federal, state and local environmental regulations when disposing of this material.*
- **Uncleaned packagings:**
- **Recommendation:** *Dispose of as unused product.*

14 Transport Information

- | | |
|---|--|
| <ul style="list-style-type: none"> · UN-Number: · DOT, ADN, IMDG, IATA · ADR | <p style="margin-left: 20px;"><i>Non-Regulated Material</i></p> <p style="margin-left: 20px;"><i>Non-Regulated Material</i></p> <p style="margin-left: 20px;"><i>Not Regulated</i></p> |
| <ul style="list-style-type: none"> · UN proper shipping name: · DOT, ADR, ADN, IMDG, IATA | <p style="margin-left: 20px;"><i>Non-Regulated Material</i></p> |
| <ul style="list-style-type: none"> · Transport hazard class(es): · DOT, ADR, ADN, IMDG, IATA · Class: | <p style="margin-left: 20px;"><i>Non-Regulated Material</i></p> |
| <ul style="list-style-type: none"> · Packing group: · DOT, ADR, IMDG, IATA | <p style="margin-left: 20px;"><i>Non-Regulated Material</i></p> |
| <ul style="list-style-type: none"> · Environmental hazards: | <p style="margin-left: 20px;"><i>Not applicable.</i></p> |
| <ul style="list-style-type: none"> · Special precautions for user: | <p style="margin-left: 20px;"><i>Not applicable.</i></p> |
| <ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: | <p style="margin-left: 20px;"><i>Not applicable.</i></p> |
| <ul style="list-style-type: none"> · UN "Model Regulation": | <p style="margin-left: 20px;"><i>Non-Regulated Material</i></p> |

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
 - **SARA (Superfund Amendments and Reauthorization):**
- | | |
|--|--|
| <ul style="list-style-type: none"> · Section 355 (extremely hazardous substances): | <p><i>Substance is not listed.</i></p> |
| <ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings): | <p><i>Substance is not listed.</i></p> |
| <ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act): | <p><i>Substance is listed.</i></p> |

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· **California Proposition 65:**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH):**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

Substance is not listed.

· **GHS label elements** Non-Regulated Material

· **Hazard pictograms:** Non-Regulated Material

· **Signal word:** Non-Regulated Material

· **Hazard statements:** Non-Regulated Material

· **National regulations:**

Non-Regulated Material

· **State Right to Know:**

None of the ingredients are listed

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 11/02/2015 / 1

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

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