

# Safety Data Sheet (OSHA GHS Compliant)

## 1. PRODUCT IDENTIFICATION

Trade Name (as labeled): FlexFit, ClearFit (a/k/a BIO TONE, REZEN NF)  
Product Identifier (Part/Item Number): 5137, 5138, 5139, 5140, 5141, 5143

U.N. Number: Not applicable  
U.N. Dangerous Goods Classification: Not applicable

Recommended Use: polyamide resin used to make non-clasp dentures

Restrictions on Use: For Professional Use Only  
Manufacturer/Supplier Name: High Dental Japan Co., Ltd.  
Manufacturer/Supplier Address: 1-20-14, Imagome, Igashi-Osaka,  
578-0903, Japan  
Manufacturer/Supplier Telephone Number: 81-72-961-8811  
Emergency Contact Telephone Number: 770-314-5226  
Email address: dentsoll@gmail.com

## 2. HAZARD IDENTIFICATION

**Hazard Classifications:** corrosive to skin/ skin irritant: Class 2  
severe damage to eyes/ eye irritant: Class 2  
particular organ-targeted poison (single exposure):  
Class 3(irritates respiratory system)  
Risk of skin burns caused by hot, molten product.

**Hazard Statements:** H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

**Precautionary Statements:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/protective clothing/eye protection/face protection

### Response Precautionary Statements

P302+P352 IF ON SKIN/L: Wash with soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing  
P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes: Remove contact lenses if present and easy to do. continue rinsing  
P312 Call a POISON CENTER or doctor/physician if you feel unwell  
P321 Specific treatment  
P332+P313 If skin irritation occurs: Get medical advice/attention

P337+P313 If eye irritation persists: Get medical advice/attention  
P362 Take off contaminated clothing and wash before reuse

### Storage Precautionary Statements

P403+P233 Store in a dry place: Keep container tightly closed  
P405 Store locked up  
P501 Dispose of contents/containers (pursuant to the governing rules and regulations)

### Other Hazard or Dangers (NFPA)

Health 1  
Fire 1  
Reactivity 0

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Substance Name	Polyamide
Binomial Name	Dodecanedioic acid polymer with 4,4'-methylenebis [cyclohexanamine]
CAS Number	25038-97-5
Content (%)	99.96% or more

## 4. FIRST AID MEASURES

Routes of Exposure	First Aid Instructions
<b>Eye</b>	If eye irritation persists, get medical advice/attention. If contacted with eye, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
<b>Skin</b>	If slight contact with skin, prevent the area of contamination from spreading. Seek emergency medical care. If contacted with hot substance, in order to abate heat, submerge the affected area in a large pool of cold water or wash. If come in contact with the substance, wash skin and eyes in a running water for 20 minutes. Get rid of contaminated clothes and shoes, and quarantine the contaminated area. Take off contaminated clothes, and wash the clothes before using them again. If skin irritation occurs, get medical advice/attention.
<b>Inhalation</b>	If exposed to a large amount of dusts or fumes, clean with clean air. If there are other symptoms or coughs, get medical attention. If breathing is difficult, supply oxygen. If the person does not breathe, perform cardio pulmonary resuscitation.
<b>Ingestion</b>	Get emergency medical treatment.
<b>Note to Physicians</b>	Inform the medical personals regarding the subject substance, and instruct them to take necessary safety measures.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	When trying to extinguish fire related with this substance, use alcohol resistant foam, CO <sub>2</sub> , dry powder, or spray water. If extinguishing by smothering, use dry sand or soils.
<b>Specific Hazards Arising from the Chemical:</b>	If heated, the container may explode. Nonflammable substance itself does not burn, but when heated it may disintegrate and generate corrosive/poisonous fumes. Parts of it may burn, but does not easily ignite fire. In case of fire, it may release carbon monoxide, nitric oxide, ammonia, and trace of other toxic products.
<b>Precautions for Fire Fighters:</b>	Rescuers must wear appropriate protective gears. In order to get rid of the fire fighting water, dig a ditch. Make sure that the substance does not get released. Precautions may be taken because it may melt and get transported. If not dangerous, remove the container from the area of fire. When trying to extinguish fire, make sure to keep a safe distance and evacuate from the area. If it is a large fire started by a tanker, use droid fire extinguishing equipments. If not available, leave the fire to burn. If it is a fire started by a tanker, even after the fire is extinguished, cool the container with a large amount of water. In the event of a large fire by a tanker, if a pressure relief valve makes a high-pitched sound or the tanker's color changes, leave the area immediately.
<b>Fire Fighting Procedures:</b>	If it is a fire started by a tanker, extinguish from a maximum distance, or use un-manned extinguishing equipments. If it is a fire started by a tanker, step away from the tanker that is burning in flames.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	Remove all sources of ignition. Avoid inhaling dusts, fumes, gas, mists, steams(...) sprays. If spilled, immediately wipe them off, and follow the precautionary statements. Prevent the formation of dust. Use mechanical handling equipment. Do not handle or touch broken containers or leaks without wearing appropriate safety gears. Prevent the diffusion by covering with a plastic sheet.
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	Be mindful of substances and conditions that should be avoided.
<b>Environmental precautions</b>	Prevent the substance from flowing into waterway, sewage, basement, or an enclosed area.
<b>Methods and material for containment and cleaning up:</b>	Use inert substances (for example, dried sand or soil) to absorb spills, and place them into a chemical waste container. After absorbing the liquid, wash away the contaminated area with detergent and water. Contaminated surfaces will be extremely slippery.

## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	<p>Before opening the container for the first time, open the stopper carefully.</p> <p>When working with it, be mindful of engineering management and personal safety gears. Prevent the formation of dust. Avoid inhaling dusts, fumes, gas, mist, steams (...) sprays.</p> <p>Handle it only in a well-ventilated area, or outside area. In case of dusts being formed: Take precautionary measures against static charges, keep away from sources of ignition.</p> <p>Even after the container is empty, it may still contain residues. Therefore, follow all MSDS/label precautionary statements.</p> <p>Avoid contacts with the skin for an extensive period of time, or for a continuous period of time. After handling, wash hands thoroughly. Use with care when handling/storing. Be mindful of substances and conditions that need to be avoided.</p>
<b>Conditions for Safe Storage</b>	Empty drums should be emptied completely, and sealed. Drums should be placed appropriately. Containers should be tightly sealed and stored in a well ventilated area.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>The Chemical's Exposure Limits and Biological Exposure Limits</b>	<p>Domestic Regulations- No further relevant information available</p> <p>ACGIH Regulations- No further relevant information available</p> <p>Biological Exposure standards- No further relevant information available</p>
<b>Appropriate Engineering Controls</b>	Use ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits
<b>Individual Protection Measures (PPE)</b>	<p><b>Respiratory Protection:</b> Wear a mask that has been certified by Korea Occupational Safety and Health Agency to be appropriate for the chemical characteristics. In case of dusts/vapors/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter or wear.</p> <p><b>Eye Protection:</b> Safety glasses are recommended.</p> <p><b>Hand Protection:</b> Information not available</p> <p><b>Body Protection:</b> Information not available</p>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

a. Appearance Characteristics Color	Granules Natural color
b. Odor	Very slight odor
c. Odor Threshold	Not available
d. pH	Not available
e. Melting/freezing point	Not available
f. Initial boiling point and range:	Not available
g. Flash point (solid, gas)	Not available
h. Explosive limits	-/-
i. Vapor pressure	Not available
j. Solubility	Insoluble
k. Vapor density	Not available
l. Specific gravity	1.0~1.2g/cm <sup>3</sup>
m. Partition coefficient: n-octanol/water:	Not available
n. Auto-ignition temperature	Not available
o. Decomposition temperature	350°C (DIN51974)
p. Flammability	Not available
q. Molecular Weight	Not available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability and Possibility of Hazardous Reactions:</b>	No decomposition in the field of application. Some parts may burn, but it does not ignite easily. Nonflammable. The substance itself does not burn, however if it is heated, it may disintegrate and emit corrosive/poisonous fumes. In the event of fire, it may give out irritating, corrosive, poisonous gas.
<b>Conditions to Avoid:</b>	Keep away from heat, spark, flame or ignition sources.
<b>Incompatible materials:</b>	Avoid combustible materials, reductants.
<b>Hazardous Decomposition Products:</b>	When it is burning, it may generate irritating, corrosive, poisonous gas through pyrolysis or combustion. Corrosive/poisonous fumes.

## 11. TOXICOLOGICAL INFORMATION

<b>Information regarding high probability of exposure</b>	Not available
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<b>Information on toxicological effects</b>	
Acute toxicity oral	Not available
Acute toxicity respiratory	Not available
Skin corrosiveness or irritation	It causes skin irritation.
Severe damages to eyes or irritation	It causes irritation to eyes.
Respiratory Hyper-sensitivity	Not available
Skin Hyper-sensitivity	Not available
Carcinogenic according to Occupational Safety and Health Acts	Not available
Carcinogenic according to the Dept. of Labor Law	Not available
IARC	Group 3
OSHA	Not available
ACGIH	Not available
NTP	Not available
EU CLP	Not available
Germ Cell Mutagenicity	Not available
Reproduction Toxicity	Not available
Specific Target Organ Toxicity (single exposure)	If inhaled, it irritates the air way.
Specific Target Organ Toxicity (multiple exposures)	Not available
Toxicity if Taken	Not available

## 12. ECOLOGICAL INFORMATION

<b>Ecological Toxicity: Aquatic/Crustacean/Fowl</b>	Not data available
<b>Persistence and Degradability</b>	Not data available
<b>Bio-accumulative Potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other Adverse Effects</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Method:</b> Dispose the contents and its container in accordance with the disposal rules and regulations.
<b>Precautions for Disposing:</b> Dispose the contents in accordance with the disposal rules and regulations.

## 14. TRANSPORT INFORMATION

<b>U.N. Identification Number</b>	Not available
<b>U.N. Proper Shipping Name</b>	Not applicable
<b>Transport Hazard Class</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Marine Pollutant</b>	Not applicable
<b>Special Precautions for User (Fire or Release)</b>	Not applicable

### 15. REGULATORY INFORMATION

No applicable regulation available.

### 16. OTHER INFORMATION

The information provided on this MSDS is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally binding contractual relationship.

Other reference materials:

The Chemical Database, The Department of Chemistry at the University of Akron  
(<http://ull.chemistry.uakron.edu/>)

Corporate Solution from Thomson Micromedex (<http://csi.micromedex.com>)

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