

## 1. Product and Company Identification

**Product Identifier:** Turbo Seal 51  
**Product Type:** Form in place gasket maker  
**Recommender Use:** Industrial and Consumer Use of Adhesives and Sealants

**Company Name:** Palm Labs Adhesives  
**Company Address:** 3063 Enterprise Road, DeBary FL 32713  
**Company Contact:** Toll Free: (855) PLA-GLUE || Phone: (321) 710-4850 || Email: Sales@PalmLabsAdhesives.com  
**Emergency Phone:** (386) 490-9983

## 2. Hazards Identification

### 2.1. Classification of the substance or mixture

Indications of danger: Xi - Irritant  
 R phrases:  
 Irritating to eyes, respiratory system and skin.  
 May cause sensitization by skin contact.  
 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### GHS classification

Hazard categories:  
 Skin corrosion/irritation: Skin Irrit. 2  
 Serious eye damage/eye irritation: Eye Dam. 1  
 Respiratory/skin sensitization: Skin Sens. 1  
 Specific target organ toxicity - single exposure: STOT SE 3  
 Hazardous to the aquatic environment: Aquatic Chronic 3  
 Hazard Statements:  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 May cause respiratory irritation.  
 Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

Aliphatic urethane acrylate  
 Polyglycol dimethacrylate  
 acrylic acid, prop-2-enoic acid



#### Pictogram:

**Signal Word:** Danger

**Hazard Statements:** H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.  
 H318: Causes serious eye damage.  
 H335: May cause respiratory irritation.  
 H412: Harmful to aquatic life with long lasting effects.

**Precautionary Statements:** P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P501: Dispose of contents/container to local, regional, national, and international regulations.

## 3. Composition / Ingredients Information

### 3.2. Mixtures - Product does not contain listed SVHC substances.

Hazardous Components	CAS Number	Percentage*	Hazard Statements
Aliphatic urethane acrylate	68987-79-1	60 - < 65	H315 H317
Polyglycol dimethacrylate	25852-47-5	30 - < 35	H317 H412
Acrylic acid, prop-2-enoic acid	79-10-7	1 - < 5 %	H226 H332 H312 H302 H314 H400
Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	80-15-9	< 1 %	H242 H331 H312 H302 H373 ** H314 H411
2'-Phenylacetohydrazide	144-83-0	< 1 %	H301 H319 H335 H315 H317

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. First Aid Measures

<b>General:</b>	In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin Contact:</b>	After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye Contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
<b>Ingestion:</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Call a POISON CENTER or doctor/physician.

#### 5. Fire Fighting Measures

<b>Extinguishing Media:</b>	Dry extinguishing powder. Foam. Water spray. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable Media:</b>	High power water jet.
<b>Special Hazards:</b>	Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ).
<b>Firefighting Instructions:</b>	Wear a self-contained breathing apparatus and chemical resistant suit. In a fire and/or explosion do not breathe fumes.
<b>Additional Information:</b>	Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray/stream to protect personnel and to cool endangered containers.

#### 6. Accidental Release Measures

<b>Emergency Procedures:</b>	Provide adequate ventilation. Do not breathe gas/vapour/spray. Avoid contact with skin, eye and clothing. Wear personal protection equipment. (refer to chapter 8)
<b>Environment Precautions:</b>	Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). In case of leakage into waters, ground or the drainage system, the appropriate authorities must be informed
<b>Clean-up Methods:</b>	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area. Treat the assimilated material according to the section on waste disposal. Clear contaminated area thoroughly.

#### 7. Handling and Storage

<b>Handling:</b>	Provide adequate ventilation. Wear suitable protective clothing. (Refer to chapter 8 ) Usual measures for fire prevention. Do not breathe gas/vapor/spray. Avoid contact with skin, eye and clothing. General protection and hygiene measures: refer to chapter 8
<b>Storage:</b>	Keep container tightly closed in a cool, well-ventilated place. Keep container dry. Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

#### 8. Exposure Controls / Personal Protection

<b>Engineering Controls:</b>	In case of open handling, use devices with built-in suction where possible. If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>Protective and hygiene measures:</b>	Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose of safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing. Protect skin by using skin protective cream.
<b>Respiratory Protection:</b>	Respiratory protection required in case of: Insufficient ventilation when generation/formation of aerosols or generation/formation of mist exceeds critical value Suitable respiratory protective equipment: Combination filter device (DIN EN 141).. Type : A / P2/P3 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!.
<b>Eye/Face Protection:</b>	Suitable eye protection: Tightly sealed safety glasses. DIN EN 166
<b>Skin Protection:</b>	Suitable protection of the body: Lab apron.

**Environmental exposure controls:** Do not empty into drains or the aquatic environment.

## 9. Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Color:</b>	Red
<b>Odor:</b>	characteristic
<b>pH:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Vapor Density:</b>	Not determined
<b>Melting Point/Range:</b>	Not determined
<b>Boiling Point/Range:</b>	Not determined
<b>Flash Point:</b>	Not determined
<b>Explosive Lower Limits:</b>	Not determined
<b>Explosive Upper Limits:</b>	Not determined
<b>Vapor Pressure:</b>	Not determined
<b>Density:</b>	Not determined
<b>Viscosity / Dynamic:</b>	Not determined

## 10. Stability and Reactivity

<b>Stability:</b>	Stable under normal storage and handling conditions.
<b>Reactivity:</b>	No information available.
<b>Hazardous Reactions:</b>	No information available.
<b>Hazardous Decomposition:</b>	Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ).
<b>Incompatible Materials:</b>	Materials to avoid: Strong acid. Oxidizing agents, strong. Alkalis (alkalis), concentrated.
<b>Conditions to Avoid:</b>	Protect against: Light. UV-radiation/sunlight. heat. cooling. moisture.

## 11. Toxicological Information

<b>Acrylic acid, prop-2-enoic acid (79-10-7)</b>	
ATE Oral	500 mg/kg
LD50 Dermal (Rabbit)	> 294 mg/kg
LC50 Inhalative (4 h) vapor (Rat)	>5,1 mg/l
ATE Inhalative aerosol	1,5 mg/l
<b>Cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide (80-15-9)</b>	
LD50 Oral (Rat)	382 mg/kg
LD50 Dermal (Rat)	500 mg/kg
LC50 Inhalative (4 h) vapor (Mouse)	(200) mg/l
ATE Inhalative aerosol	0,5 mg/l
<b>2'-Phenylacetohydrazide (114-83-0)</b>	
LD50 Oral (Rat)	270 mg/kg

### Irritation and corrosivity

- Causes skin irritation.
- Causes serious eye damage.

### Sensitizing effects

- May cause an allergic skin reaction. (Aliphatic urethane acrylate), (Polyglycol dimethacrylate), (2'-Phenylacetohydrazide)
- Respiratory or skin sensitization:
- People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

### STOT-single exposure

- May cause respiratory irritation. (2'-Phenylacetohydrazide)

### Severe effects after repeated or prolonged exposure

- Based on available data, the classification criteria are not met.
- acrylic acid, prop-2-enoic acid:
- Subchronic oral toxicity (90d, Rat.) NOAEL = 40 mg/kg; literature information: ECHA Dossier
- Subchronic inhalative toxicity (90d, Rat.) LOAEC = 0,015 mg/l; literature information: ECHA Dossier

- cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:
- Subchronic inhalative toxicity (Rat.) NOAEC = 31 mg/m<sup>3</sup>; literature information: ECHA Dossier

### Carcinogenic/mutagenic/toxic effects for reproduction

- Based on available data, the classification criteria are not met.
- acrylic acid, prop-2-enoic acid:
- In-vitro mutagenicity: OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) = negative.
- literature information: ECHA Dossier

In-vivo mutagenicity: No experimental indications of mutagenicity in-vivo exist. literature information: ECHA Dossier  
 Carcinogenicity: (Mouse.) NOAEL = >10 mg/kg(bw)/day; literature information: ECHA Dossier  
 Developmental toxicity/teratogenicity (Rat.) NOAEC = 0,075 mg/l; literature information: ECHA Dossier

cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide:  
 In-vitro mutagenicity: OECD Guideline 471 (Bacterial Reverse Mutation Assay) = positive. literature information: ECHA Dossier  
 No experimental indications of mutagenicity in-vivo exist. literature information: ECHA Dossier

**Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. Ecological Information

**Toxicity:**

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	(h)   (d)	Species	Source
79-10-7	<b>acrylic acid, prop-2-enoic acid</b>					
	Acute fish toxicity	LC50	27 mg/l	96 h	Onchorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50	0,13 mg/l	72 h	Desmodesmus subspicatus	MSDS extern
	Acute crustacea toxicity	EC50	95 mg/l	48 h	Daphnia magna	ECHA Dossier
80-15-9	<b>cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide</b>					
	Acute fish toxicity	LC50	3,9 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50	3,1 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50	18,84 mg/l	48 h	Daphnia magna	ECHA Dossier

**Persistence / Degradability:**

CAS No	Chemical name					
	Method		Value	d		Source
	Evaluation					
80-15-9	<b>cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide</b>					
	OECD 301B / ISO 9439 / EWG 92/69 Anhang V, C.4-C		3%	28		ECHA Dossier
	Not easily bio-degradable (according to OECD-criteria).					

**Bioaccumulative Potential:**

CAS No	Chemical name	Log Pow
79-10-7	acrylic acid, prop-2-enoic acid	0,35
80-15-9	cumene hydroperoxide, alpha,alpha-dimethylbenzyl hydroperoxide	2,16

**Mobility in Soil:** No data available.

**Other Adverse Effects:** No data available.

## 13. Disposal Considerations

**13.1. Waste treatment methods**
**Advice on disposal**

Waste disposal according to official state regulations. Consult the local waste disposal expert about waste disposal. Cleaned containers may be recycled.

**Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
 Classified as hazardous waste.

**Waste disposal number of used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
 Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
 Classified as hazardous waste.

**Contaminated packaging**

Handle contaminated packaging in the same way as the substance itself.

## 14. Transport Information

### Land Transport (ADR/RID)

UN Number: Not restricted

### Inland waterways transport (ADN)

UN Number: Not restricted

### Marine Transport (IMDG)

UN Number: Not restricted

### Air Transport (ICAO)

UN Number: Not restricted

Environmentally Hazardous: No

Special precautions for user: Refer to chapter 6-8

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Irrelevant

## 15. Regulatory Information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

1999/13/EC (VOC): No information available. VOC Directive 2004/42/EC: No information available.

#### Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Not subject to regulation 96/82/EC.

REACH 1907/2006 Appendix XVII, No 3

#### National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 3 - highly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

The above information describes exclusively the safety requirements of this product and any information present herein has been compiled from sources considered to be accurate and reliable, but is not guaranteed to be so. The information is intended to give you advice about the safe handling of the product named in this Safety Data Sheet (SDS) for storage, processing, transport, and disposal. The information cannot be transferred to other products. In the case of mixing this product with any other substance or in the case of processing, the information on this safety data sheet is not necessarily valid for the resulting material. Nothing herein shall be considered as recommending practices or products in violation of any patent, law, or regulation. It is the user's responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranties regarding the products and disclaim all express or implied warranties, including any warranty of merchantability or fitness for a particular purpose.