

# NATIONAL ADHESIVE DISTRIBUTORS cc

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## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION

**Product Name:** GLUE DEVIL MEDIUM STRENGTH ANAEROBIC SCREWLOCK  
**Product Code:** GD22  
**Preparation:** Anaerobic threadlocker based on methacrylates.  
**Company Name:** National Adhesive Distributors (Durban Head Office)

### 2. HAZARDS IDENTIFICATION

**Main Hazards:** Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact.

### 3. COMPOSITION / INFORMATION OF INGREDIENTS

**Hazardous Ingredients:** 2-HYDROXYPROPYLMETHACRYLATE (MIXTURE OF ISOMERS) 3-6%  
EINECS: 248-666-3 CAS: 27813-02-1  
[Xi] R36; [Sens.] R43

- N,N-DIMETHYL-P-TOLUIDINE <1%  
EINECS: 202-805-4 CAS: 99-97-8  
[T] R23/24/25; [Xn] R33; [-] R52/53
- ACRYLIC ACID 0-1%  
EINECS: 201-177-9 CAS: 79-10-7  
[-] R10; [Xn] R20/21/22; [C] R35; [N] R50
- CUMENE <1%  
EINECS: 202-704-5 CAS: 98-82-8  
[-] R10; [Xi] R37; [N] R51/53; [Xn] R65

- CUMENE HYDROPEROXIDE 1-3%

EINECS: 201-524-7      CAS: 80-15-9

[O] R7; [Xn] R21/22; [T] R23; [C] R34; [Xn] R48/20/22; [N] R51/53

#### 4. FIRST AID MEASURES (SYMPTOMS)

<b>Skin Contact:</b>	There may be irritation and redness at the site of contact. An itchy rash may occur at the site of contact.
<b>Eye Contact:</b>	There may be irritation and redness. The eyes may water profusely.
<b>Ingestion:</b> pain	There may be soreness and redness of the mouth and throat. Nausea and stomach may occur.
<b>Inhalation:</b>	There may be irritation of the throat with a feeling of tightness in the chest.

#### 4. FIRST AID MEASURES (ACTION)

<b>Skin Contact:</b>	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation persists, obtain medical attention.
<b>Eye Contact:</b>	Bathe the eye with running water for 15 minutes. Consult a doctor.
<b>Ingestion:</b>	Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.
<b>Inhalation:</b>	Remove casualty from exposure ensuring one's own safety whilst doing so.

#### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media:</b>	Alcohol resistant foam. Dry chemical powder. Carbon dioxide. Use water spray to cool containers. Do not use water.
<b>Exposure Hazards:</b>	In combustion emits toxic fumes of carbon dioxide; carbon monoxide and nitrogen oxides.
<b>Fire-Fighter Protection:</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Refer to section 8 of SDS for personal protection details. Evacuate the area immediately. Eliminate all sources of ignition. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
<b>Environmental Precautions:</b>	Do not discharge into drains or rivers. Contain the spillage using bunding
<b>Clean-up Procedures:</b>	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 7. HANDLING AND ASTORAGE

<b>Handling Requirements:</b>	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
<b>Storage Conditions:</b>	Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight. Keep container tightly closed.
<b>Suitable Packaging:</b>	Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Hazardous Ingredients:</b>	CUMENE WEL (8 hr TWA): 125mg/m <sup>3</sup> WEL (15 min STEL): 250mg/m <sup>3</sup>
<b>Engineering Measures:</b>	Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.
<b>Respiratory Protection:</b>	Gas/vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus must be available in case of emergency.
<b>Hand Protection:</b>	Neoprene gloves. Nitrile gloves. Do not use PVC gloves as they absorb acrylates.
<b>Eye Protection:</b>	Safety glasses. Ensure eye bath is to hand.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>State:</b>	Liquid
<b>Colour:</b>	Purple
<b>Odour:</b>	Characteristic odour
<b>Evaporation Rate:</b>	Negligible
<b>Oxidising:</b>	Non-oxidising (by EC criteria)
<b>Solubility In Water:</b>	Insoluble in water.
<b>Also Soluble In:</b>	Acetone
<b>Viscosity:</b>	Viscous
<b>Viscosity Value:</b>	~14,000cPs
<b>Viscosity:</b>	Viscous
<b>Flammability Limits: Lower:</b>	n/a
<b>Upper:</b>	n/a
<b>Flash Point °C:</b>	>100
<b>Part.coeff. n-octanol/water:</b>	n/e
<b>Vapour Pressure:</b>	~0.1mmHg @ 20oC
<b>Relative Density:</b>	~1.04
<b>pH:</b>	~5

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat. Direct sunlight. Sources of ignition.
<b>Materials to Avoid:</b>	Strong oxidising agents. Strong acids. Free-radical initiators. Copper.
<b>Haz. Decomp. Products:</b>	In combustion emits toxic fumes of carbon dioxide / carbon monoxide / nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients:</b>	2-HYDROXYPROPYLMETHACRYLATE (MIXTURE OF ISOMERS) ORL ORL MUS LD50 7964 mg/kg
	• N,N-DIMETHYL-P-TOLUIDINE IPR MUS LD50 212 mg/kg
	• ACRYLIC ACID IPR RAT LD50 22 mg/kg ORL MUS LD50 830 mg/kg ORL RAT LD50 1250 mg/kg SCU MUS LD50 1590 mg/kg
	• CUMENE ORL MUS LD50 12750 mg/kg ORL RAT LD50 1400 mg/kg
	• CUMENE HYDROPEROXIDE ORL MUS LDLO 5 mg/kg ORL RAT LD50 382 mg/kg SCU RAT LD50 382 mg/kg
<b>Chronic Toxicity:</b>	Prolonged or repeated over-exposure may lead to sensitising effects and/ or dermatitis in sensitive individuals.
<b>Routes of Exposure:</b>	Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

## 12. ECOLOGICAL INFORMATION

<b>Mobility:</b>	Non-volatile. Heavier than water.
<b>Persistence &amp; Degradability:</b>	Biodegradable.
<b>Bio-accumulative Potential:</b>	No bio-accumulation potential.

### 13. DISPOSAL CONSIDERATIONS

**Disposal Operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of Packaging:** Dispose of as normal industrial waste.

**\*\*\* NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### 14. TRANSPORT INFORMATION

#### ADR / RID

**Shipping Name:** (n/a)

#### IMDG /IMO

#### IATA / ICAO

### 15. REGULATORY INFORMATION

**Hazard Symbols:** Irritant



**Risk Phrases:** R36/37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitisation by skin contact.

**Safety Phrases:** S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37: Wear suitable gloves.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

**Other Information:** This Material Safety Data Sheet is compiled with reference to The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3) which implement the Council Directives 67/548/EC (The Dangerous Substances Directive) and 99/45/EC (The Dangerous Preparation Directive) and subsequent amending regulations to both and also the Safety Data Sheet Directive 91/155/EC and subsequent amending regulations.

This safety data sheet is prepared in accordance with Regulation (EC) No. 1907/2006.

**Risk Phrases Used in s.3:**

R36: Irritating to eyes.

R43: May cause sensitisation by skin contact.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R33: Danger of cumulative effects.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R35: Causes severe burns.

R50: Very toxic to aquatic organisms.

R37: Irritating to respiratory system.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

R7: May cause fire.

R21/22: Harmful in contact with skin and if swallowed.

R23: Toxic by inhalation.

R34: Causes burns.

R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

**Legal Disclaimer:** The information contained in this safety data sheet was obtained from a variety of sources and is believed to be accurate and current at the stated issue date. National Adhesive Distributors CC and/ or its agents cannot accept liability for the use of information contained in this data sheet or for the use, application or processing of the product described in the data sheet. Users should note the possibility of hazards occurring due to improper use of the product.