

# Safety Data Sheet Military Grade 23

SDS Revision Date:

AUG2023



## 1. Identification

### 1.1. Product identifier

**Product Identity**

**Military Grade 23**

**Alternate Names**

223 Purple, 23 Trans Gel, 23 Purple

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

Thread Sealant See Technical Data Sheet.

**Application Method**

See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

**Company Name**

Adhesive R & D Inc.  
4603 Anderson Drive  
Eau Claire, WI. 54703

**Contact Telephone No.**

1 (715) 832-4557

**Customer Service: Adhesive R&D Inc.**

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

Acute Toxicity - Oral	Category 4	Carcinogenicity	Category 2
Acute Toxicity - Dermal	Category 4	Specific target organ toxicity	Category 2
Acute Toxicity - Inhalation	Category 4		
Skin corrosion/irritation	Category 2		
Serious eye damage	Category 2A		

### 2.2. Label elements



**Warning**

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Harmful if swallowed  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
Suspected of causing cancer.

## **[Prevention]:**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.  
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / eye protection / face protection.

## **[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.  
P304+312 IF INHALED: Remove victim to fresh air. Call a POISON CENTER or doctor / physician if you feel unwell.  
P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.  
If swallowed: Call a poison center or doctor/physician if you feel unwell. Rinse mouth.  
P308+313 IF exposed or concerned: Get medical advice / attention.  
P321 Specific treatment (see information on this label).  
P332+313 If skin irritation occurs: Get medical advice / attention.  
P337+313 If eye irritation persists: Get medical advice / attention.  
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P362 Take off contaminated clothing and wash before reuse.

## **[Storage]:**

P403+235 Store in a well ventilated place. Keep cool.  
P405 Store locked up.

## **[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

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## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	CAS #	Notes
Dimethacrylate Ester	30-50	Proprietary	[1]
Proprietary Plasticizer	20-35	Proprietary	[1]
PolyGlycol Dimethacrylate	20-40	25852-47-5	[1]
Saccharin	1-5	81-07-2	[1]
Cumene Hydroperoxide	1-3	80-15-9	[1] [2]
Amorphous Silica	5-15	67762-90-7	[1]
1-Acetyl-2-phenylhydrazine	.1-3	114-83-0	[1]

[1] The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[2] Substance classified with a health or environmental hazard. SARA section 313 toxic chemical.

## 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep victim at rest in a comfortable breathing position. Get medical attention if irritation persists.
<b>Eyes</b>	Immediately flush with plenty of water for several minutes. Get medical attention if irritation persists.
<b>Skin</b>	Wash skin with soap and water. If irritation persists, call physician.
<b>Ingestion</b>	If swallowed DO NOT induce vomiting. Get medical attention if irritation persists.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

Carbon Dioxide, Dry Chemicals, Foam

### 5.2. Special hazards arising from the substance or mixture

None

Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

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A self-contained breathing apparatus is required.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

DO NOT use cloth materials. In case of a leak or spill, flood area with water to polymerize the material. Soak up with inert absorbent. Ventilate area. Prevent product from entering drains.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid breathing vapors.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

Exposure controls

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- Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
- Eyes** Protective safety glasses recommended
- Skin** Use polyethylene gloves and aprons. DO NOT use cotton/cloth gloves.
- Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.
- See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	Purple Transition Gel
<b>Odor</b>	Mild
<b>Odor threshold</b>	Not Measured
<b>pH</b>	Not Measured
<b>Melting point / freezing point</b>	Not Measured
<b>Initial boiling point and boiling range</b>	Greater than 300 F
<b>Flash Point</b>	Greater than 200 F (TCC)
<b>Evaporation rate (Ether = 1)</b>	Not Measured
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
<b>Vapor pressure (Pa)</b>	Not Measured
<b>Vapor Density</b>	Not Measured
<b>Specific Gravity</b>	1.1
<b>Solubility in Water</b>	Insoluble
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured
<b>Auto-ignition temperature</b>	Not Measured
<b>Decomposition temperature</b>	Not Measured
<b>Viscosity (cSt)</b>	Not Measured

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

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## 10.2. Chemical stability

Stable under normal circumstances.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

Excessive Heat.

## 10.5. Incompatible materials

Strong oxidizing agents, Peroxides, Reducing agents.

## 10.6. Hazardous decomposition products

Carbon oxides

## 11. Toxicological information

### Acute toxicity

Likely routes of exposure Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr		
Cumene Hydroperoxide CAS # 80-15-9	=382 mg/kg (RAT)	=0.126 mL/kg (Rabbit)	=220ppm (RAT) 4hr		
Carcinogenicity Table Ingredient	ACGIH	IARC	NTP	OSHA	
SACCHARIN Cas# 81-07-02		Group 3			

## 12. Ecological information

### 12.1. Toxicity

Toxic to aquatic life

**Aquatic Ecotoxicity**

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Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Cumene Hydroperoxide CAS# 80-15-9	3.9:96 h Oncorhynchus mykiss	7:24 h Daphnia magna	Not Available
Saccharin	18300:96 Pimephales promelas	Not Available	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Chemical Name: **Cumene Hydroperoxide** CAS # 80-15-9 RCRA-U Series Wastes [ **U096** ]

## 14. Transport information

**DOT (Domestic Surface Transportation)**

Not regulated

**IMO / IMDG (Ocean Transportation)**

Not regulated

**ICAO/IATA**

Not regulated

## 15. Regulatory information

### International Inventories

TSCA

Complies

DSL/NDSL

Complies

EINECS/ELINCS

Does Not

ENCS

Comply

IECSC

Complies

KECL

Complies

PICCS

Complies

AICS

Complies

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**US Federal Regulations**

**SARA 313**

Section 313 of title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Cumene Hydroperoxide CAS# 80-15-9	1.0
Saccharin CAS# 81-07-2	1.0

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure	No
Reactive hazard	No

**CWA (Clean Water Act)**

This product does not contain any substance regulated as pollutants to the Clean Water Act (40CFR 122.21 and 40 CFR122.42

**CERCLA**

This product contains one or more substances regulated under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Haz. Sub. RQs	CERCLA/SARA RQ	Reportable Qnty (RQ)
Cumene Hydroperoxide CAS 80-15-9	10 lb	-	RQ 10lb final RQ RQ 4.54kg final RQ

**California Prop 65**

Titanium Dioxide 13463-67-7	Carcinogen
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**U.S. State Right to Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Cumene Hydroperoxide 80-15-9	X	X	X
Saccharin 81-07-2	X	X	X
Titanium Dioxide 13463-67-7	X	X	X

**US EPA Label Information**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

<b><u>NFPA</u></b>	<b>Health Hazards 2</b>	<b>Flammability 1</b>	<b>Instability 0</b>	
<b><u>HMIS</u></b>	<b>Health Hazards 2</b>	<b>Flammability 1</b>	<b>Physical hazards 0</b>	<b>Personal Protection B</b>



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## 16. Other information

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