

Safety Data Sheet Military Grade 43



SDS Revision Date:

JAN2023

1. Product and Company Identification

Product name: Military Grade 43 Blue

Product type Anaerobic Adhesive

Restriction of Use: None

Company address:

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

Contact information:

Telephone: 1 (715) 832-4557

2. Hazard(s) identification

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN AND EYE IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.

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

PICTOGRAM(S)



Precautionary Statements

Prevention:

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

Response:

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air. Call a POISON CENTER or doctor / physician if you feel unwell. 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. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice /

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Storage:

Disposal:

attention. If eye irritation persists: Get medical advice / attention. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Take off contaminated clothing and wash before reuse.

Store in a well-ventilated place. Keep cool. Store locked up.

Dispose of contents and/or container according to Federal, State/Provincial, and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. Composition/information on ingredients

Hazardous Component(s)	CAS Number	Percentage*
Dimethacrylate Ester	Proprietary	50 - 80
Proprietary Plasticizer	Proprietary	10 - 40
Polyglycol dimethacrylate	25852-47-5	1-10
Saccharin	81-07-2	1 - 5
Cumene hydroperoxide	80-15-9	1 - 3
Amorphous Silica	67762-90-7	5 - 15
Cumene	98-82-8	0.1 - 1
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 3

*Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. First aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep victim at rest in a comfortable breathing position. Get medical attention if irritation persists.

Skin contact:

Wash skin with soap and water. If irritation persists, call physician.

Eye contact:

Immediately flush with plenty of water for several minutes. Get medical attention if irritation persists.

Ingestion:

If swallowed DO NOT induce vomiting. Get medical attention if irritation persists.

Symptoms:

See Section 11.

5. Fire fighting measures

Extinguishing media:

Carbon Dioxide, Dry Chemicals, Foam

Special firefighting procedures:

A self-contained breathing apparatus is required.

Unusual fire or explosion hazards:

Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.

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Hazardous combustion products: Avoid breathing dust / fume / gas / mist / vapors / spray.

6. Accidental release measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Unusual fire or explosion hazards: 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.

Hazardous combustion products: 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

Handling: Avoid contact with skin and eyes. Avoid breathing vapors. Handle containers carefully to prevent damage and spillage. Refer to Section 8.

Hazardous combustion products: 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.

8. Exposure controls and personal protection

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Dimethacrylate Ester	None	None	None	None
Proprietary Plasticizer	None	None	None	None
Polyglycol dimethacrylate	None	None	None	None
Saccharin	None	None	None	None
Cumene hydroperoxide	None	None	None	None
Amorphous Silica	None	None	None	None
Cumene	None	None	None	None
1-Acetyl-2-phenylhydrazine	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

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Eye/face protection:

Protective safety glasses recommended.

Skin protection:

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.

9. Physical and chemical properties

Physical state:	Liquid
Color:	Blue
Odor:	Mild
Odor threshold:	Not Measured
pH:	Not Measured
Vapor pressure:	Not Measured
Boiling point/range:	> 149 °C (> 300.2 °F)
Melting point/ range:	Not Measured
Specific gravity:	1.1 at 23.9 °C (75.02 °F)
Vapor density:	Not Measured
Flash point:	> 93.3 °C (> 199.94 °F) Tagliabue closed cup
Flame projection:	Not Measured
Flammable/Explosive limits - lower:	Not Measured
Flammable/Explosive limits - upper:	Not Measured
Autoignition temperature:	Not Measured
Flammability:	Not Measured
Evaporation rate:	Not Measured
Solubility in water:	Insoluble
Partition coefficient (n-octanol/water):	Not Measured
VOC content:	0.56 %; 6.17 g/l (California SCAQMD Method 316B) (Estimated)
Viscosity:	Not Measured
Decomposition temperature:	Not Measured

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10. Stability and reactivity

Stability:	Stable under normal circumstances.
Hazardous Reactions:	No data available.
Hazardous decomposition products:	Carbon oxides
Incompatible materials:	Strong oxidizing agents, Peroxides, Reducing agents.
Reactivity:	Hazardous Polymerization will not occur.
Conditions to avoid:	Excessive Heat.

11. Toxicological information

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes eye irritation.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Dimethacrylate Ester	None	None
Proprietary Plasticizer	None	None
Polyglycol dimethacrylate	None	None
Saccharin	None	None
Cumene hydroperoxide	Oral LD50 (Rat) = 382 mg/kg Skin LD50 (Rabbit) = 0.126 mL/kg Inhalation LC50 (Rat, 4 h) = 220ppm	None
Amorphous Silica	None	None
Cumene	None	None
1-Acetyl-2-phenylhydrazine	None	None

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Dimethacrylate Ester	No	No	No
Proprietary Plasticizer	No	No	No
Polyglycol dimethacrylate	No	No	No
Saccharin	No	Group 3	No
Cumene hydroperoxide	No	No	No
Amorphous Silica	No	No	No

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Cumene	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No

12. Ecological information

Ecological information:

Toxic to aquatic life

Aquatic Ecotoxicity

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

13. Disposal considerations

Information provided is for unused product only.

Recommended method of disposal: Observe all federal, state and local regulations when disposing of this substance.

Hazardous waste number: Cumene Hydroperoxide CAS # 80-15-9 RCRA-U Series Wastes [U096]

14. Transport information

The transport information provided in this section only applies to the material/formulation itself and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated
Hazard class or division: Not regulated
Identification number: Not regulated
DOT Hazardous Substance(s): Not regulated

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: Not regulated
Identification number: Not regulated
Packing group: Not regulated

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: Not regulated
Identification number: Not regulated
Packing group: Not regulated

15. Regulatory information

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United States Regulatory Information

TSCA 8 (b) Inventory Status:	Complies
TSCA 12 (b) Export Notification:	Complies
CERCLA/SARA Section 302 EHS:	This product contains one or more substances regulated under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302). Cumene Hydroperoxide (CAS# 80-15-9) 10lbs. (4.54kg)
CERCLA/SARA Section 311/312:	Acute health hazard
CERCLA/SARA Section 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. Cumene Hydroperoxide (CAS# 80-15-9). Saccharin (CAS# 81-07-2).
xCERCLA Reportable quantity:	Cumene Hydroperoxide (CAS# 80-15-9) 10lbs. (4.54kg)
California Proposition 65:	Titanium Dioxide (13463-67-7). Carcinogen.

Canada Regulatory Information

CEPA DSL/NDSL Status: None

16. Other information

This safety data sheet contains changes from the previous version in sections: Reviewed SDS. Reissued with new date.

Prepared by: Adhesive R&D Technical Staff

Issue date: 01/2023

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