

M745- Medium Viscosity Cyanoacrylate Adhesives

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
 SDS ID: 101488
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SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Name : M745- Medium Viscosity Cyanoacrylate Adhesives
 Product code : **M745-1242 (1 Oz); M745-1300 (2 Oz); M745-1310 (8 Oz)**
 Other means of identification : Cyanoacrylate Adhesive

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Adhesives, sealants

1.3. Supplier

Supplier

RPM Industrial Coatings Group
 3194 B Hickory Blvd.
 Hudson, NC 28638
 Phone: 828-728-8266
 Fax: 828-728-2409

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300
 CHEMTREC® International Emergency number: 703-527-3887

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 4	H227	Combustible liquid
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H227 - Combustible liquid
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H335 - May cause respiratory irritation

Precautionary statements (GHS US) :

P261 - Avoid breathing fume, vapors.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear eye protection, protective gloves.

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P302+P352 - If on skin: Wash with plenty of soap and water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Adhesive containing cyanoacrylates. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children. Contact with skin through cellulose based fabrics (i.e cotton, rayon, linen, viscose) generates heat and may cause burns.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
ethyl-2-cyanoacrylate	CAS-No.: 7085-85-0	≥ 75	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.

First-aid measures after inhalation : Overexposure may be irritating to the respiratory system. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Do not pull solidified product away from the skin. Do not remove clothing if it sticks to the skin. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Contact with skin through cellulose based fabrics (i.e cotton, rayon, linen, viscose) generates heat and may cause burns. . In the case of large spills on the skin, superficial burns may occur - treat accordingly. If skin irritation or rash occurs: Get medical advice/attention. Get immediate medical advice/attention.

First-aid measures after eye contact : Cyanoacrylates bonds the eyelids in seconds. Immediately flush eyes thoroughly with water for at least 15 minutes. Do not try to open the eyes by manipulation. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Ingestion unlikely.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

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Symptoms/effects	: Irritation of the eye tissue. Causes skin and eye irritation. Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause irritation to skin. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
Symptoms/effects after eye contact	: Causes eye irritation. Cyanoacrylates bonds the eyelids in seconds.
Symptoms/effects after ingestion	: Ingestion unlikely. Unlikely to occur since material will harden in the mouth.

4.3. Immediate medical attention and special treatment, if necessary

IF exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: alcohol resistant foam. Dry powder. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium. Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard	: Combustible liquid.
Reactivity in case of fire	: May polymerize on exposure to temperature rise with pressure rise and possible bursting of container.
Hazardous decomposition products in case of fire	: Combustion products may include the following: carbon oxides (CO, CO ₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO ₂ etc.).

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. IF exposed to fire cool the closed containers by spraying with water. Do not allow water to enter the vessels, a violent reaction may occur.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Eliminate every possible source of ignition. Ensure adequate ventilation. Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety procedures.
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6.1.1. For non-emergency personnel

Protective equipment	: Use appropriate personal protection equipment (PPE).
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Evacuate unnecessary personnel. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use appropriate personal protection equipment (PPE). Ventilate area.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

- For containment : Contain the spilled material by bunding. Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Keep away from ignition sources.
- Methods for cleaning up : Take up small spills with dry chemical absorbent. (Do not use cloths; rags or materials made from cellulose fibers). Use non-sparking tools. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact of substance with water. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Keep away from sources of ignition - No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Presents no particular risk when handled in accordance with good occupational hygiene practice.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations. Store in accordance with local, regional, national or international regulation.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources, Sources of ignition, Water, humidity. Store in a dry place. Store at temperatures not exceeding 24°C / 75°F. Keep container closed when not in use.
- Incompatible products : Amines. alcohols. Oxidising agents. Water. Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Water, humidity.
- Storage temperature : 2 – 24 °C
- Storage area : For optimum shelf-life, it is recommended to keep the product in a refrigerated storage area.
- Packaging materials : Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available	
ethyl-2-cyanoacrylate (7085-85-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethyl cyanoacrylate
ACGIH OEL TWA [ppm]	0.2 ppm
ACGIH OEL STEL [ppm]	1 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; asthma. Notations: DSEN; RSEN
Regulatory reference	ACGIH 2022

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Avoid all unnecessary exposure.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Protective clothing. Safety glasses. Gloves. Avoid all unnecessary exposure.

Materials for protective clothing:				
Keep suitable chemically resistant protective clothing readily available for emergency use				
Hand protection:				
Chemically resistant protective gloves				
Type	Material	Permeation	Thickness (mm)	Penetration
Reusable gloves	Nitrile rubber (NBR), Fluoroelastomer (FKM)	6 (> 480 minutes)	0.5mm	
Eye protection:				
Chemical goggles or safety glasses				
Type	Field of application		Characteristics	
Safety glasses	Droplet		clear, With side shields	
Skin and body protection:				
Wear suitable protective clothing. Do not wear protective clothing based on cellulose fibers (e.g cotton, linen, viscose).				
Respiratory protection:				
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended				
Device	Filter type		Condition	
Gas mask	Type A - High-boiling (>65 °C) organic compounds		If conc. in air > exposure limit	

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Colorless liquid.
Color : Colorless
Odor : Irritating sharp
Odor threshold : No data available
pH : No data available
Melting point : No data available

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Freezing point	: No data available
Boiling point	: > 300 °F
Flash point	: > 176 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: < 0.2 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 450 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ≈ 600 cP
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: Not oxidising.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Combustible liquid. Polymerizes on exposure to water (moisture).

10.3. Possibility of hazardous reactions

Stable under normal conditions of use. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Direct sunlight. Extremely high or low temperatures. Moisture.

10.5. Incompatible materials

Amines. alcohols. Strong oxidizers. Strong acids. Strong bases.

10.6. Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NOx). irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

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ethyl-2-cyanoacrylate (7085-85-0)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Skin, 14 day(s))

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause respiratory irritation.

ethyl-2-cyanoacrylate (7085-85-0)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Irritation of the eye tissue. Causes skin and eye irritation. Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause respiratory irritation.
Symptoms/effects after skin contact	: May cause irritation to skin. Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.
Symptoms/effects after eye contact	: Causes eye irritation. Cyanoacrylates bonds the eyelids in seconds.
Symptoms/effects after ingestion	: Ingestion unlikely. Unlikely to occur since material will harden in the mouth.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Not classified for aquatic hazard due to rapid polymerization in contact with water.
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12.2. Persistence and degradability

M745- Medium Viscosity Cyanoacrylate Adhesives	
Persistence and degradability	No data available. Not established.

ethyl-2-cyanoacrylate (7085-85-0)	
Persistence and degradability	Readily biodegradable in water.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

ethyl-2-cyanoacrylate (7085-85-0)	
Partition coefficient n-octanol/water (Log Pow)	0.776 (Published data)
Bioaccumulative potential	Low bioaccumulation potential. (Log Kow < 4).

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12.4. Mobility in soil

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Ecology - soil : Mobility is considered to be very low due to rapid polymerization with water.

ethyl-2-cyanoacrylate (7085-85-0)

Organic Carbon Normalized Adsorption Coefficient (Log Koc) : 0.834 (calculated value)

Ecology - soil : Highly mobile in soil.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Disposal to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.




Sewage disposal recommendations : Do not discharge into drains or rivers. Avoid discharge to the environment.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
3334	Not applicable	3334	3334
14.2. Proper Shipping Name			
Aviation regulated liquid, n.o.s.	Not applicable	AVIATION REGULATED LIQUID, N.O.S.	Aviation regulated liquid, n.o.s.
14.3. Transport hazard class(es)			
9	Not applicable	9	9
 Not applicable			
14.4. Packing group			
Not applicable	Not applicable	Not applicable	III
14.5. Environmental hazards			
Dangerous for the environment: No	Not applicable	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

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14.6. Special precautions for user

DOT

UN-No.(DOT)	: UN3334
DOT Special Provisions (49 CFR 172.102)	: A35 - This includes any material which is not covered by any of the other classes but which has an anesthetic, narcotic, noxious or other similar properties such that, in the event of spillage or leakage on an aircraft, extreme annoyance or discomfort could be caused to crew members so as to prevent the correct performance of assigned duties. A189 - Except where the defining criteria of another class or division are met, concentrations of formaldehyde solution: a. With less than 25 percent but not less than 10 percent formaldehyde, must be described as UN3334, Aviation regulated liquid, n.o.s; and b. With less than 10 percent formaldehyde, are not subject to this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 204
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 450 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 450 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

TDG

Emergency Response Guide (ERG) Number : 171

IMDG

Special provision (IMDG)	: 960
Stowage category (IMDG)	: None
Properties and observations (IMDG)	: Not subject to the provisions of this Code but may be subject to provisions governing the transport of dangerous goods by other modes.

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 100L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A27
ERG code (IATA)	: 9A

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Fire hazard Reactive hazard
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Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

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Name	CAS-No.	Listing	Commercial status	Flags
Proprietary Acrylated Monomer	Trade Secret	Not present	-	
ethyl-2-cyanoacrylate	7085-85-0	Present	Active	

15.2. International regulations

CANADA

ethyl-2-cyanoacrylate (7085-85-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

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This product is listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements

ethyl-2-cyanoacrylate (7085-85-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

Component	State or local regulations
ethyl-2-cyanoacrylate(7085-85-0)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 04/08/2022
Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.
Other information : None.

Full text of H-phrases	
H227	Combustible liquid
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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Indication of changes:			
Section	Changed item	Change	Comments
	Revision date	Modified	
1	Product code	Modified	
1	Name	Modified	

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